2013 R2

Invantive Estate

Manual

invantive

Solutions for
Real Estate and Finance

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Auteurs: Jan van Engelen, Michiel de Brieder, Mathijs Terhaag, Tanja Middelkoop, Guido Leenders, Tatjana Daka.

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1 Invantive Estate

Welcome to the Invantive Estate manual, Invantive Estate is a project management solution for projects of real estate companies. Invantive Software BV is also supplier of the product Invantive Vision. Invantive Vision is a project management solution especially suitable for architects, IT companies and service providers in secondment and consultancy.

Project development is a risky service. It consists of the development of real estate, in the form of terrains, building or other types of real estate, such as parking areas. Real estate development is an activity that can be performed in several ways:

- The development of a project is done within an legal entity, specifically established for this purpose. Several parties can work together within this entity on a basis of a contractual agreement. The entity has no other relevant activities or assets except the development of real estate project. Project development which makes use of a specialized legal entity has several benefits for the involved parties as there are clear agreements on cooperation, there's little risk to the interdependence of work on the project with other types of work within the mother companies and finally it forms a safety net for any financial debacle within the project as the negative consequences typically only have a legal impact on the unit itself. The financial risks for investors usually are limited to their input in the new legal entity. Such legal units are often to be recognized by the name which specifically refers to the to be executed project.
- The development of projects is the core activity of the legal unit. Within this legal unit several projects are executed simultaneously, with each project in its own stage and degree of completion. The financial investment happens for instance by acquiring resources from the capital market, from own resources or from a combination of both. Real estate developers such as ING Real Estate and AM belong to this category.
- The development of projects is not the core activity of the legal entity, but is according to

the accounting rules a profit center within the organization. This form is usually seen at large construction companies which also acquire ground and realize projects as part of their business and at their own risk.

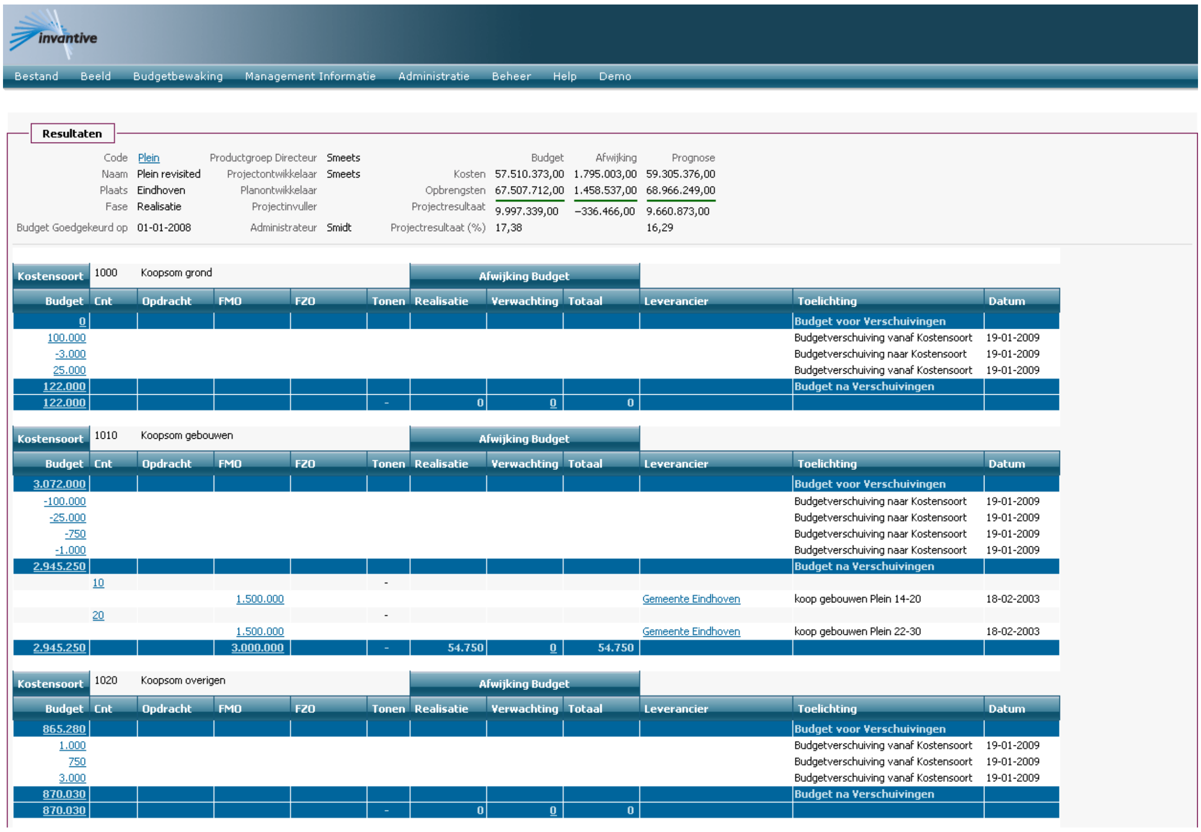
Projects are known for the long period of time (up to twenty years) and the large investments involved. In order to safeguard the budget and to control risks in these difficult processes Invantive Estate has been developed. By making risks, budgetary deficits and insufficient cash flow earlier visible, the process can be steered in an earlier stage. In this way the project developer will try to minimize the budgetary deficits and turn budgetary excesses into a higher quality.

Invantive Estate has the following general characteristics:

- With your financial administrations as a base, Invantive Estate registers the realization from the general ledger per project and cost category.
- Invantive Estate provides reports for several management levels from which cost categories can be rolled up into bigger groups.
- Documents and tasks can be attached to financial records so that an integrated project file is created.
- Invantive Estate has a flexible security model with which you can for instance give project managers read and/or write access to solely their own projects.
- Unexpected incidents in the information security can be traced, based on an extensive audit trail.
- Reports are available in Adobe PDF format for optimal layout and distribution, and in Microsoft Excel format for analysis.
- Historical situations are easily accessible through the new timeline feature.
- Projects can be closed after which no changes are possible anymore.

The typical life cycle of a project includes the following phases:

- Acquisition of land according to the desired destination.
- Determining the revenues and costs of a project in the form of exposé or a total investment plan.
- The exposé specifies the budgets per cost category, if necessary detailed per contractual agreement, as shown in the below example:



Code	Plein	Productgroep Directeur	Smeets		Budget	Afwijking	Prognose
Naam	Plein revisited	Projectontwikkelaar	Smeets	Kosten	57.510.373,00	1.795.003,00	59.305.376,00
Plaats	Eindhoven	Planontwikkelaar		Opbrengsten	67.507.712,00	1.458.537,00	68.966.249,00
Fase	Realisatie	Projectinvuller		Projectresultaat	9.997.339,00	−336.466,00	9.660.873,00
Budget Goedgekeurd op	01-01-2008	Administrateur	Smidt	Projectresultaat (%)	17,38		16,29

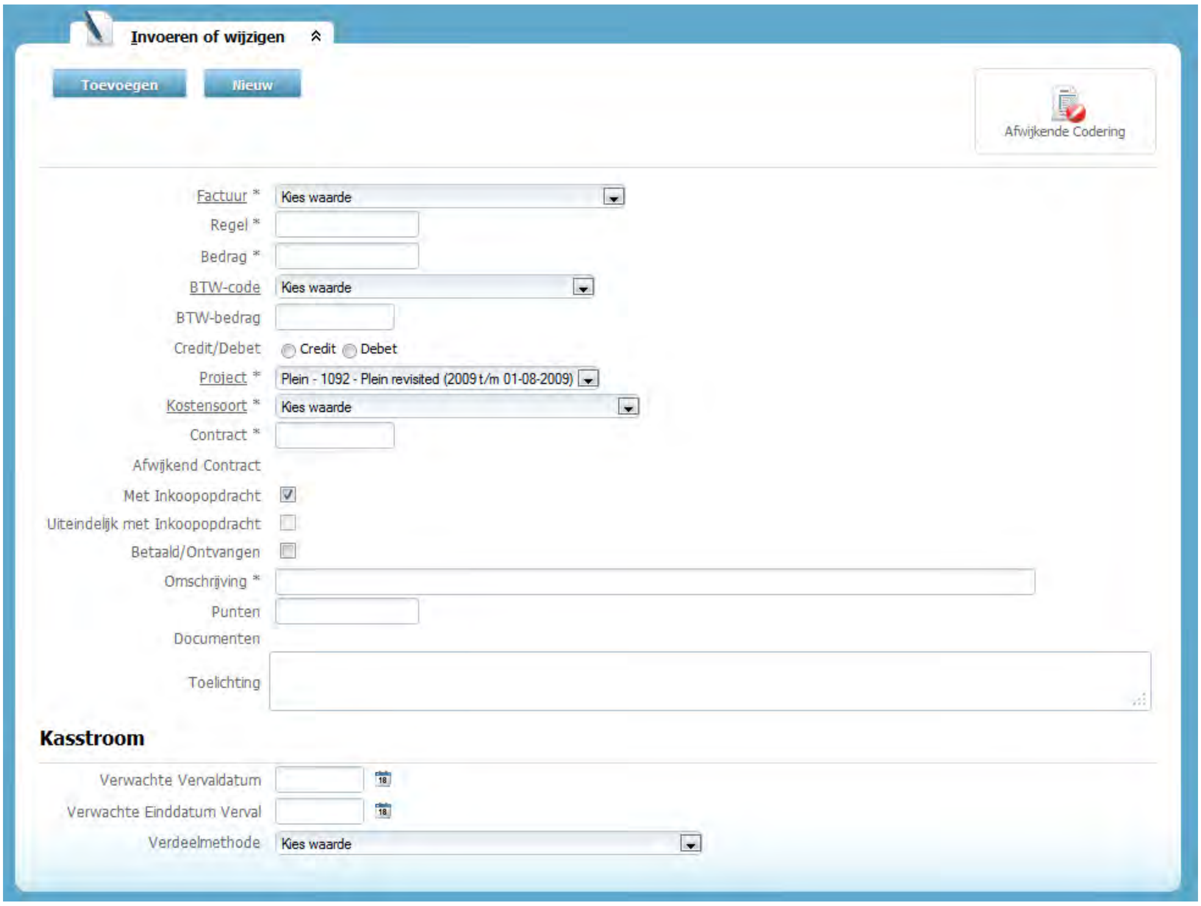
Kostensoort	1000	Koopsom grond				Afwijking Budget					
Budget	Cnt	Opdracht	FMO	FZO	Tonen	Realisatie	Verwachting	Totaal	Leverancier	Toelichting	Datum
0										Budget voor Verschuivingen	
100.000										Budgetverschuiving vanaf Kostensoort	19-01-2009
-3.000										Budgetverschuiving naar Kostensoort	19-01-2009
25.000										Budgetverschuiving vanaf Kostensoort	19-01-2009
122.000										Budget na Verschuivingen	
122.000					-	0	0	0			

Kostensoort	1010	Koopsom gebouwen				Afwijking Budget					
Budget	Cnt	Opdracht	FMO	FZO	Tonen	Realisatie	Verwachting	Totaal	Leverancier	Toelichting	Datum
3.072.000										Budget voor Verschuivingen	
-100.000										Budgetverschuiving naar Kostensoort	19-01-2009
-25.000										Budgetverschuiving naar Kostensoort	19-01-2009
-750										Budgetverschuiving naar Kostensoort	19-01-2009
-1.000										Budgetverschuiving naar Kostensoort	19-01-2009
2.945.250										Budget na Verschuivingen	
	10				-						
			1.500.000						Gemeente Eindhoven	koop gebouwen Plein 14-20	18-02-2003
	20				-						
			1.500.000						Gemeente Eindhoven	koop gebouwen Plein 22-30	18-02-2003
2.945.250			3.000.000		-	54.750	0	54.750			

Kostensoort	1020	Koopsom overigen				Afwijking Budget					
Budget	Cnt	Opdracht	FMO	FZO	Tonen	Realisatie	Verwachting	Totaal	Leverancier	Toelichting	Datum
865.280										Budget voor Verschuivingen	
1.000										Budgetverschuiving vanaf Kostensoort	19-01-2009
750										Budgetverschuiving vanaf Kostensoort	19-01-2009
3.000										Budgetverschuiving vanaf Kostensoort	19-01-2009
870.030										Budget na Verschuivingen	
870.030					-	0	0	0			

After the exposé is approved the project will be started:

During the development and realization the financial administration records the actual numbers. The registration of the project results can take place by means of an automated interface or by manual input:

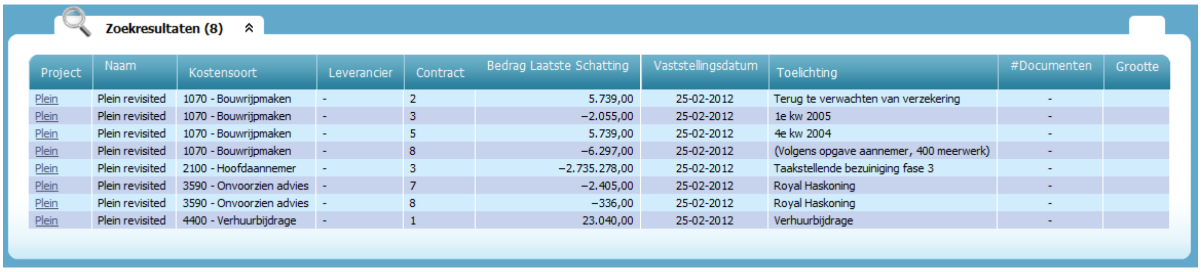


Factuur *	Kies waarde
Regel *	
Bedrag *	
BTW-code	Kies waarde
BTW-bedrag	
Credit/Debet	○ Credit ○ Debet
Project *	Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)
Kostensoort *	Kies waarde
Contract *	
Afwijkend Contract	
Met Inkoopopdracht	☑
Uiteindelijk met Inkoopopdracht	☐
Betaald/Ontvangen	☐
Omschrijving *	
Punten	
Documenten	
Toelichting	

Kasstroom

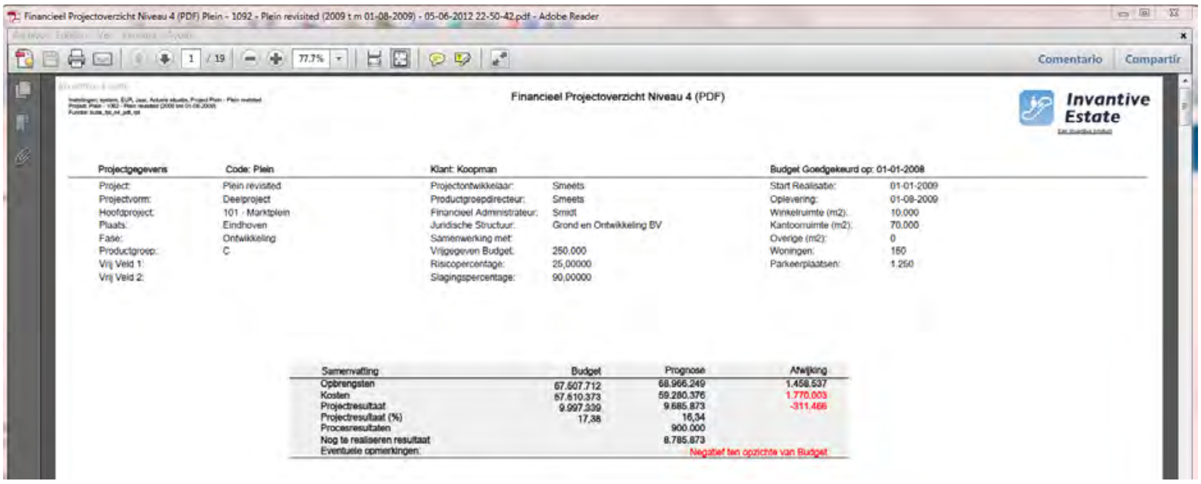
Verwachte Vervaldatum	
Verwachte Einddatum Verval	
Verdeelmethode	Kies waarde

In addition, recent estimates, sales orders and sales are registered before they have led to an actual financial result. The next screen shows an example:



Project	Naam	Kostensoort	Leverancier	Contract	Bedrag Laatste Schatting	Vaststellingsdatum	Toelichting	#Documenten	Grootte
Plein	Plein revisited	1070 - Bouwrijpmaken	-	2	5.739,00	25-02-2012	Terug te verwachten van verzekering	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	-	3	−2.055,00	25-02-2012	1e kw 2005	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	-	5	5.739,00	25-02-2012	4e kw 2004	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	-	8	−6.297,00	25-02-2012	(Volgens opgave aannemer, 400 meerwerk)	-	
Plein	Plein revisited	2100 - Hoofdaannemer	-	3	−2.735.278,00	25-02-2012	Taakstellende bezuiniging fase 3	-	
Plein	Plein revisited	3590 - Onvoorzien advies	-	7	−2.405,00	25-02-2012	Royal Haskoning	-	
Plein	Plein revisited	3590 - Onvoorzien advies	-	8	−336,00	25-02-2012	Royal Haskoning	-	
Plein	Plein revisited	4400 - Verhuurbijdrage	-	1	23.040,00	25-02-2012	Verhuurbijdrage	-	

Based on this data, a risk model (standard or organization specific) calculates a forecast as a deviation from the project budget. The deviation makes visible what the project's actual financial status and risks are, in comparison to the exposé; exceedings are immediately shown, surpluses can be implemented elsewhere in order to compensate deficits:


Financieel Projectoverzicht Niveau 4 (PDF) Plein - 1092 - Plein revisited (2009 t m 01-08-2009) - 05-06-2012 22-50-42.pdf - Adobe Reader
1 / 19
77.7%
Comentario
Compartir
Invantive Estate

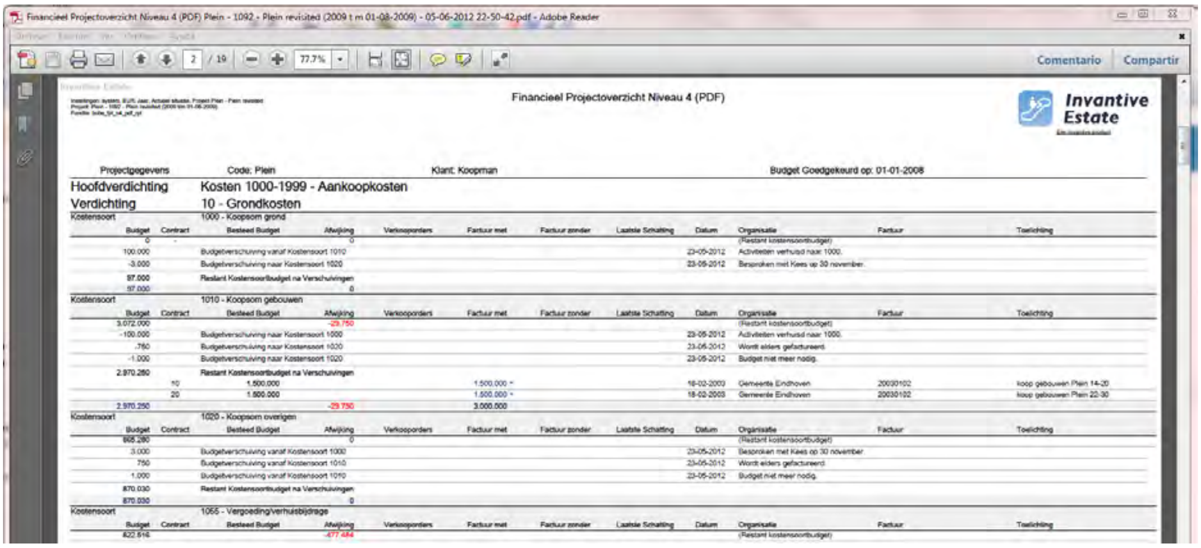
Financieel Projectoverzicht Niveau 4 (PDF)

Projectgegevens	Code: Plein	Klant: Koopman		Budget Goedgekeurd op: 01-01-2008	
Project:	Plein revisited	Projectontwikkelaar:	Smeets	Start Realisatie:	01-01-2009
Projectvorm:	Deelproject	Productgroepdirecteur:	Smeets	Oplevering:	01-08-2009
Hoofdproject:	101 - Marktplein	Financieel Administrateur:	Smidt	Winkelruimte (m2):	10.000
Plaats:	Eindhoven	Juridische Structuur:	Grond en Ontwikkeling BV	Kantoorruimte (m2):	70.000
Fase:	Ontwikkeling	Samenwerking met:		Overige (m2):	0
Productgroep:	C	Vrijgegeven Budget:	250.000	Woningen:	150
Vrij Veld 1:		Risicopercentage:	25,00000	Parkeerplaatsen:	1.250
Vrij Veld 2:		Slagingspercentage:	90,00000		

Samenvatting	Budget	Prognose	Afwijking
Opbrengsten	67.507.712	68.966.249	1.458.537
Kosten	57.610.373	59.280.376	1.770.003
Projectresultaat	9.997.339	9.685.873	-311.466
Projectresultaat (%)	17,38	16,34	
Procesresultaten		900.000	
Nog te realiseren resultaat		8.785.873	
Eventuele opmerkingen:			Negatief ten opzichte van Budget

With reference to the forecast a cash flow projection can be composed which also leads to a net current value calculation.

Extensive reports and possibilities to click on headlines to see details make it possible to analyse unexpected results:


Financieel Projectoverzicht Niveau 4 (PDF) Plein - 1092 - Plein revisited (2009 t m 01-08-2009) - 05-06-2012 22-50-42.pdf - Adobe Reader
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Financieel Projectoverzicht Niveau 4 (PDF)

Projectgegevens Code: Plein Klant: Koopman Budget Goedgekeurd op: 01-01-2008

Hoofdverdichting Kosten 1000-1999 - Aankoopkosten

Verdichting 10 - Grondkosten

Kostensoort 1000 - Koopsom grond

Budget	Contract	Besteed Budget	Afwijking	Verkooporders	Factuur met	Factuur zonder	Laatste Schatting	Datum	Organisatie	Factuur	Toelichting
0	-		0						(Restant kostensoortbudget)		
100.000		Budgetverschuiving vanaf Kostensoort 1010						23-05-2012	Activiteiten verhuisd naar 1000.		
-3.000		Budgetverschuiving naar Kostensoort 1020						23-05-2012	Besproken met Kees op 30 november.		
97.000		Restant Kostensoortbudget na Verschuivingen									
97.000			0								

Kostensoort 1010 - Koopsom gebouwen

Budget	Contract	Besteed Budget	Afwijking	Verkooporders	Factuur met	Factuur zonder	Laatste Schatting	Datum	Organisatie	Factuur	Toelichting
3.072.000			-29.750						(Restant kostensoortbudget)		
-100.000		Budgetverschuiving naar Kostensoort 1000						23-05-2012	Activiteiten verhuisd naar 1000.		
-750		Budgetverschuiving naar Kostensoort 1020						23-05-2012	Wordt elders gefactureerd.		
-1.000		Budgetverschuiving naar Kostensoort 1020						23-05-2012	Budget niet meer nodig.		
2.970.250		Restant Kostensoortbudget na Verschuivingen									
	10	1.500.000			1.500.000 *			18-02-2003	Gemeente Eindhoven	20030102	koop gebouwen Plein 14-20
	20	1.500.000			1.500.000 *			18-02-2003	Gemeente Eindhoven	20030102	koop gebouwen Plein 22-30
2.970.250			-29.750		3.000.000						

Kostensoort 1020 - Koopsom overigen

Budget	Contract	Besteed Budget	Afwijking	Verkooporders	Factuur met	Factuur zonder	Laatste Schatting	Datum	Organisatie	Factuur	Toelichting
865.280			0						(Restant kostensoortbudget)		
3.000		Budgetverschuiving vanaf Kostensoort 1000						23-05-2012	Besproken met Kees op 30 november.		
750		Budgetverschuiving vanaf Kostensoort 1010						23-05-2012	Wordt elders gefactureerd.		
1.000		Budgetverschuiving vanaf Kostensoort 1010						23-05-2012	Budget niet meer nodig.		
870.030		Restant Kostensoortbudget na Verschuivingen									
870.030			0								

Kostensoort 1055 - Vergoeding/verhuisbijdrage

Budget	Contract	Besteed Budget	Afwijking	Verkooporders	Factuur met	Factuur zonder	Laatste Schatting	Datum	Organisatie	Factuur	Toelichting
822.516			-477.484						(Restant kostensoortbudget)		

During the project, possible administrative profits are registered based on the calculated status and the implemented value base such as IFRS.

Finally, after the project results are delivered the project is archived, after which you cannot change anything anymore.

In the next chapters the following topics are discussed:

- User interface 7: how to control the application
- All Form and Reports 7.
- The MS Outlook User Interface 367.
- Your Private User Interface 461.
- Processes 487 within Invantive Estate.
- Server 489.
- The Installation 507.
- Performance 502.

- Versions 584.
- Glossary 560.
- Frequently asked questions 505: what procedures do you have to follow to rightfully handle practical examples?

1.1 Concepts

This chapter describes some general concepts.

1.1.1 Security

Invantive Estate offers a flexibele model to protect the access to data. The security exists of a aggregate of two security mechanisms:

- Securing of access to data of projects (project security).
- Security of the access to functions like screens and reports (function security).

The aggregate means that:

- A user only has access to data in a function if he has access to the data as well as the function.
- A user can only change data (change, add or delete) in a function if he has writing rights on the project and also writing rights in the function.
- There is no security mechanism to secure access to data which do not belong to projects. The access to the functions decides if someone can see or change the data.
- Because of the aggregate, it is possible that a user can change data in one screen, but not in another.

Document security is described in

Project Security

Per project, it can be set if someone can have all data of that particular project:

- See
- Change

All data of that project means the project itself, and all other data like invoice lines, orders, revenues and project authorizations.

You can maintain the security in several ways:

- In the screen Settings 336 you can indicate if everyone can see or change all projects.
- In the screen Roles 158 you can indicate if all users with a role can see or change all projects.
- In the screen Project Authorizations 157 you can indicate per aggretate of a project and user if someone can see or change the project.

On top of that, you can automatically maintain rights using profile options with the text '-pae-' in the code, so that a controller can get automatically reading and/or editing rights for the project where he is responsible for.

Notice: the user ‘system’ always has access to all projects.

Function Security

Per function, it can be set or someone:

- The screen can open

- Data can change in the screen

The function security is set through the screen Role Authorizations 159.

Notice: the user 'system' always has access to all projects.

Security Documents

The security of the documents is arranged through the combination of project security and function security. There is an additional security mechanism because you can see documents with different types of data like Units, Orders and Revenues in the function Documents 102

By giving access to the various types of functions for Documents you can determine who is allowed to see which documents. For example, the function 'Access to documents with Project.' yields access to documents with projects if you also have rights for the related project.

For background processes the function 'Access to documents with Background Process.' yields access to the related documents. However, here it is the case that you can always view and edit documents of background processes that you have requested yourself.

1.2 Invantive Estate Online

This chapter describes how the provided web user interface works.

1.2.1 User Interface

This chapter shows you how the basic functions of the web interface work. Here you learn to use the search function, how to navigate through the menu, how to change, add or remove data, how to add or remove documents and how to request data for further processing in Microsoft Excel or Adobe Acrobat PDF.

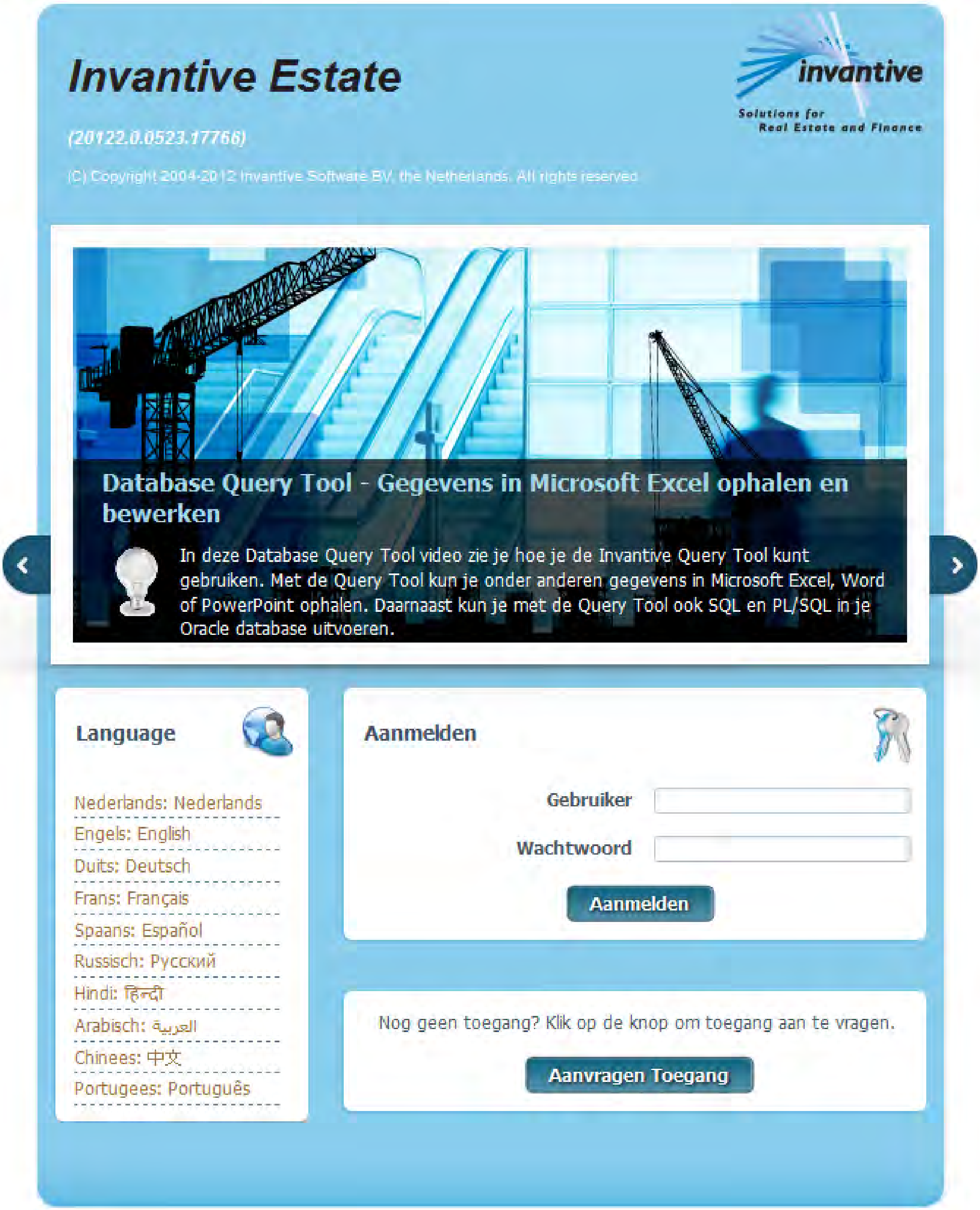
1.2.1.1 Start up and Login

Perform the following steps to start Invantive Estate:

- Open the ‘Start’ menu left under in your screen.
- Next, you enter the menu of ‘Programs’.
- Click once on Invantive Estate.
- The program opens in the browser and the login screen below appears.
- With the country flags on the right of the login screen you can choose the language of your preference. Once you have selected the language of your choice, the text in the login screen and other screens of Invantive Estate appears in the selected language.
- To be allowed to use Invantive Estate you have to fill in your username and password.
- After typing your username and password, click on the ‘Login button’.

Warning! Both username and password are capital sensitive. This means you must pay attention to using the right capital letters in your username and password. Without capital letter at the right places you will not get access to the program.

If you do not have an account yet, you can request for entrance by clicking the button ‘Request Entrance’. Next, you will arrive in the screen Request Entrance 8.



Invantive Estate

(20122.0.0523.17766)

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Database Query Tool - Gegevens in Microsoft Excel ophalen en bewerken

In deze Database Query Tool video zie je hoe je de Invantive Query Tool kunt gebruiken. Met de Query Tool kun je onder anderen gegevens in Microsoft Excel, Word of PowerPoint ophalen. Daarnaast kun je met de Query Tool ook SQL en PL/SQL in je Oracle database uitvoeren.

Language

- Nederlands: Nederlands
- Engels: English
- Duits: Deutsch
- Frans: Français
- Spaans: Español
- Russisch: Русский
- Hindi: हिन्दी
- Arabisch: العربية
- Chinees: 中文
- Portugees: Português

Aanmelden

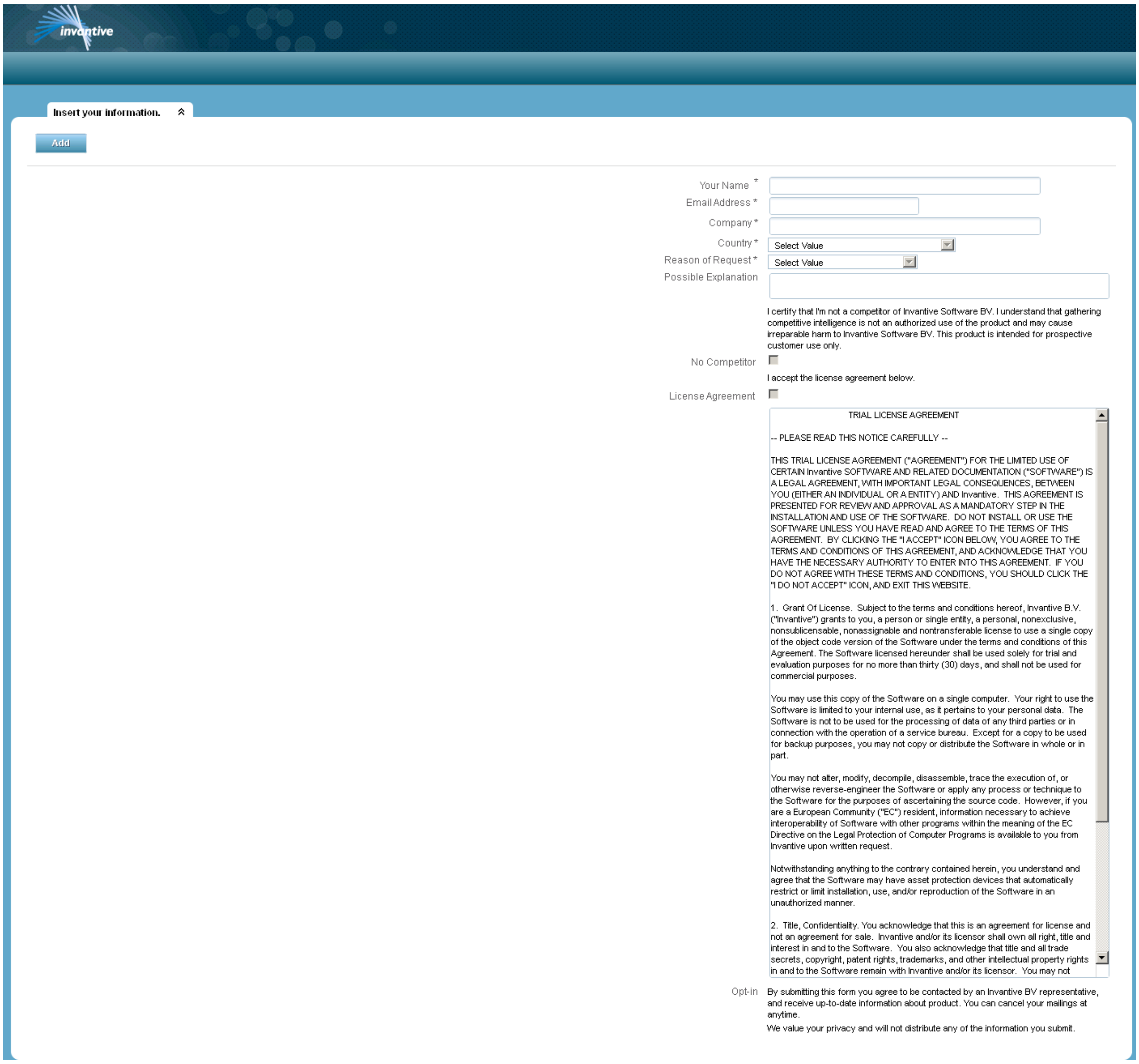
Gebruiker

Wachtwoord

Nog geen toegang? Klik op de knop om toegang aan te vragen.

1.2.1.2 Request Access

This form allows you to request an access code for evaluation purposes if you have not already have one.



Your Name *
Email Address *
Company *
Country * Select Value
Reason of Request * Select Value
Possible Explanation

I certify that I'm not a competitor of Invantive Software BV. I understand that gathering competitive intelligence is not an authorized use of the product and may cause irreparable harm to Invantive Software BV. This product is intended for prospective customer use only.

No Competitor ☐

I accept the license agreement below.

License Agreement ☐

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Opt-in By submitting this form you agree to be contacted by an Invantive BV representative, and receive up-to-date information about product. You can cancel your mailings at anytime.

We value your privacy and will not distribute any of the information you submit.

The meaning of the entry fields is:

Your Name	Your full name.
Email Address	The email address w here the access credentials should be sent to.
Business	The name of the company you w ork for.
Country	The country of residence.
Reason of Request	The reason w hy you w ish access to Invantive Estate.
Possible Explanation	A free textual explanation for the reason of your request.
No Competitor	The confirmation that you w ill use the information received solely for the purposes described.
License Agreement	The terms and conditions under w hich access is granted.
Opt-in	The confirmation that Invantive may contact you by phone or through other communication channels.

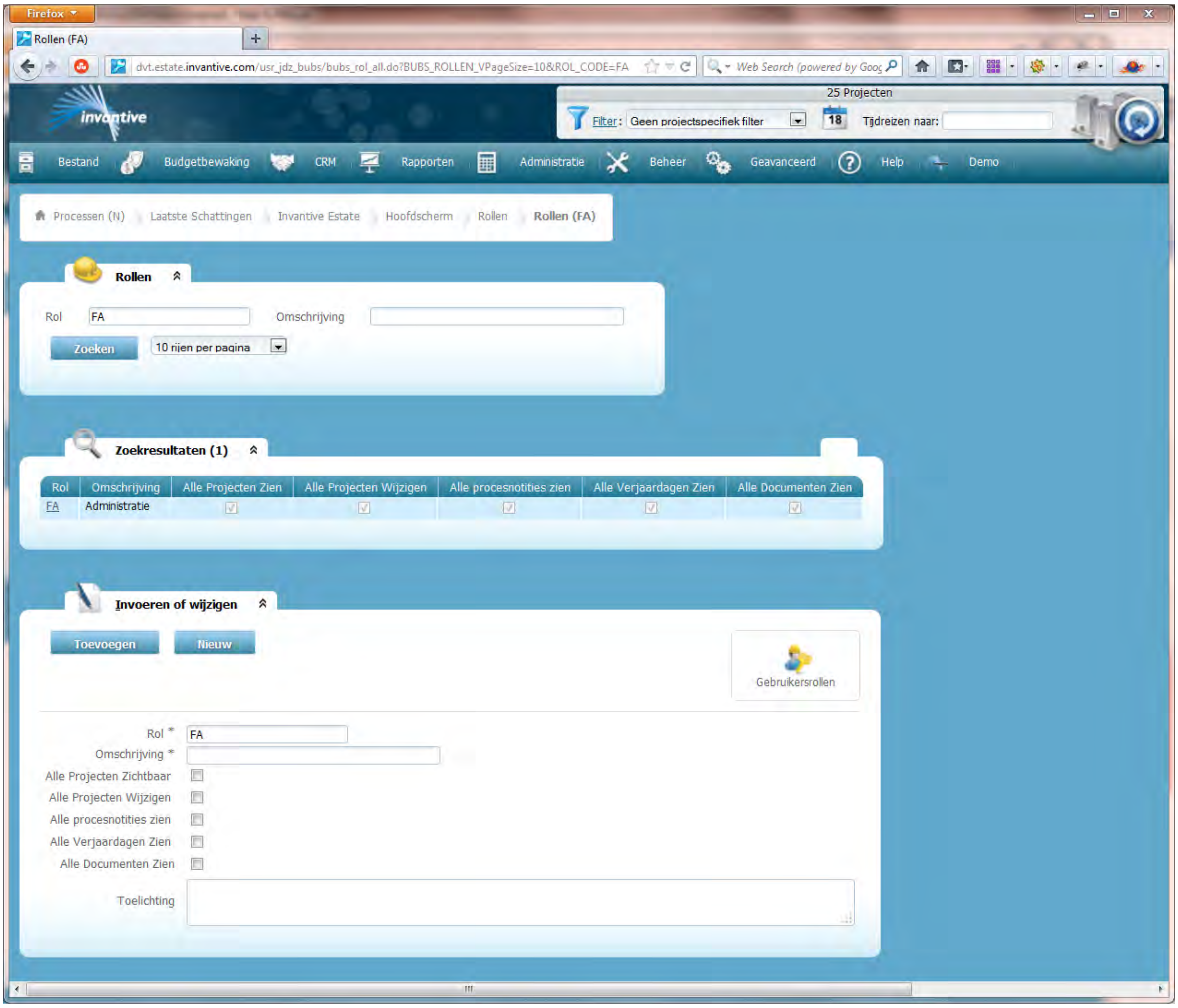
1.2.1.3 Opening screen

Once you have logged in, the opening screen of Invantive Estate will appear. The opening screen can vary per user. The URL of the opening screen can be set in the submenu My Preferences 41.

The content of a screen in Invantive Estate has some fixed components:

- The title.

- The filter.
- The menu.
- The crumb trail.
- Action buttons, if relevant for the screen.
- The logo of Invantive Software BV.


Firefox
Rollen (FA)
dvt.estate.invantive.com/usr_jdz_bubs/bubs_rol_all.do?BUBS_ROLLEN_VPageSize=10&ROL_CODE=FA
Web Search (powered by Goog
invantive
25 Projecten
Filter: Geen projectspecifiek filter
18
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Processen (N)
Laatste Schattingen
Invantive Estate
Hoofdscherm
Rollen
Rollen (FA)
Rollen
Zoeken
10 rijen per pagina
Zoekresultaten (1)
Invoeren of wijzigen
Toevoegen
Nieuw
Gebruikersrollen

Rol: FA
Omschrijving:

Rol	Omschrijving	Alle Projecten Zien	Alle Projecten Wijzigen	Alle procesnotities zien	Alle Verjaardagen Zien	Alle Documenten Zien
FA	Administratie	☑	☑	☑	☑	☑

Rol * FA
Omschrijving *
Alle Projecten Zichtbaar ☐
Alle Projecten Wijzigen ☐
Alle procesnotities zien ☐
Alle Verjaardagen Zien ☐
Alle Documenten Zien ☐
Toelichting

Besides of the fixed components, a screen in Invantive Estate contains some components which can be made hidden or visible as desired by the user. These display components are described in section Other Screens 16. The process of making visible or hiding is described in section View 39.

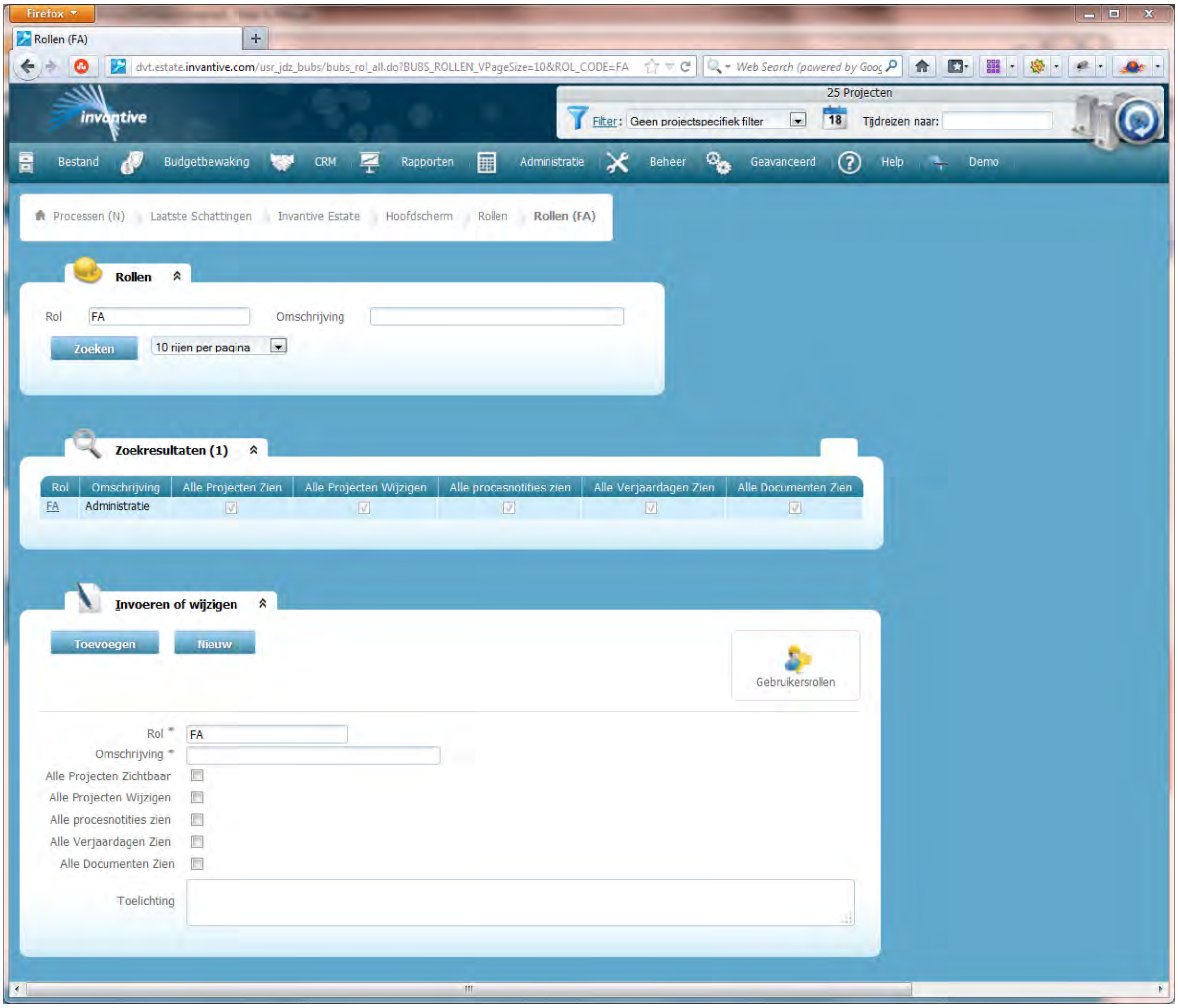
Title

The title of a screen in Invantive Estate consists of:

- The name of the screen.
- Information about the applied search filter or about the selection made in the screen.
- Possible warning if any input data has not been saved yet.

The title of a screen is shown in the title bar and in the tab of your browser window in which the screen is opened.

Below is an example in case a search filter 16 has been applied. The title 'Roles (FA)' shows the name of the screen 'Roles' and the applied search filter '(FA)'. The applied search filter is shown in parentheses.


Firefox
Rollen (FA)
dvt.estate.invantive.com/usr_jdz_bubs/bubs_rol_all.do?BUBS_ROLLEN_VPageSize=10&ROL_CODE=FA
Web Search (powered by Goog
invantive
25 Projecten
Filter: Geen projectspecifiek filter
18
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Processen (N)
Laatste Schattingen
Invantive Estate
Hoofdscherm
Rollen
Rollen (FA)
Rollen
Zoeken
Zoekresultaten (1)
Invoeren of wijzigen
Toevoegen
Nieuw
Gebruikersrollen

Rol: FA

Omschrijving:

10 rijen per pagina

Rol	Omschrijving	Alle Projecten Zien	Alle Projecten Wijzigen	Alle procesnotities zien	Alle Verjaardagen Zien	Alle Documenten Zien
FA	Administratie	☑	☑	☑	☑	☑

Rol *: FA

Omschrijving *:

Alle Projecten Zichtbaar ☐

Alle Projecten Wijzigen ☐

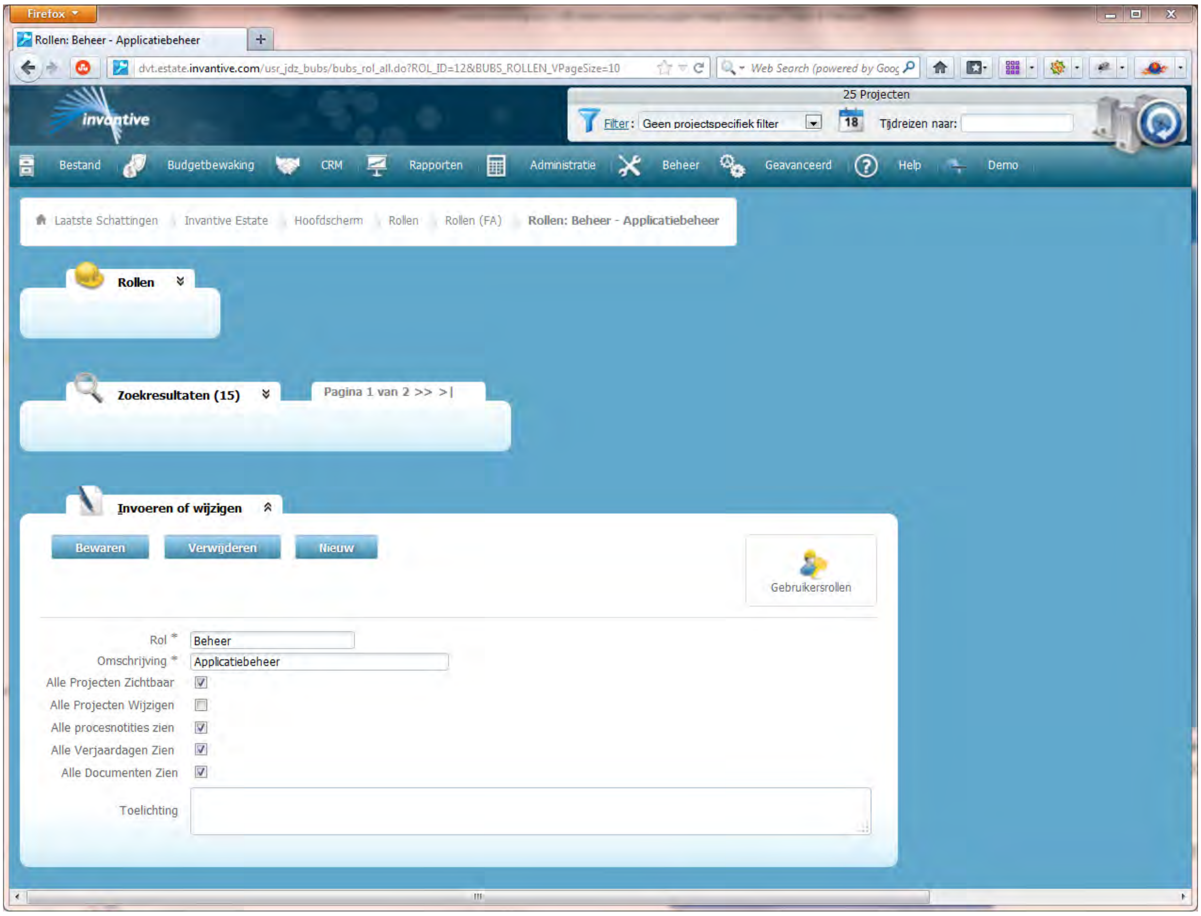
Alle procesnotities zien ☐

Alle Verjaardagen Zien ☐

Alle Documenten Zien ☐

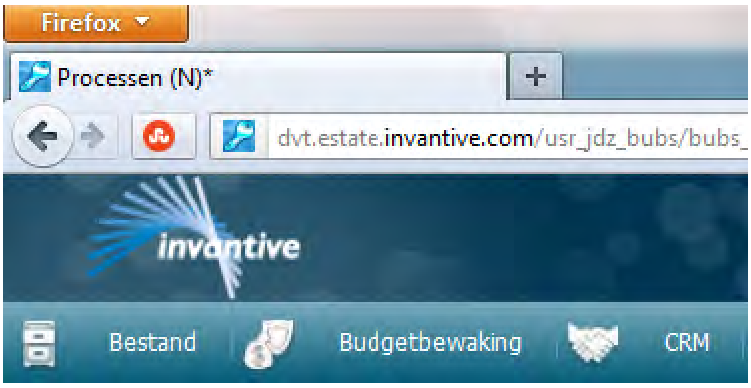
Toelichting:

The next screen shows an example when information is selected in the screen. The title ‘Roles: FA - Administration’ shows the name of the screen ‘Roles’ and also the name of the applied search filter ‘FA - Administration’. The symbol ‘:’ is used as separator between the name of the screen and the reference to the selected information.


Firefox
Rollen: Beheer - Applicatiebeheer
dvt.estate.invantive.com/usr_jdz_bubs/bubs_rol_all.do?ROL_ID=12&BUBS_ROLLEN_VPageSize=10
Web Search (powered by Goog
invantive
25 Projecten
Filter: Geen projectspecifiek filter
18
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Laatste Schattingen
Invantive Estate
Hoofdscherm
Rollen
Rollen (FA)
Rollen: Beheer - Applicatiebeheer
Rollen
Zoekresultaten (15)
Pagina 1 van 2 >> >|
Invoeren of wijzigen
Bewaren
Verwijderen
Nieuw
Gebruikersrollen

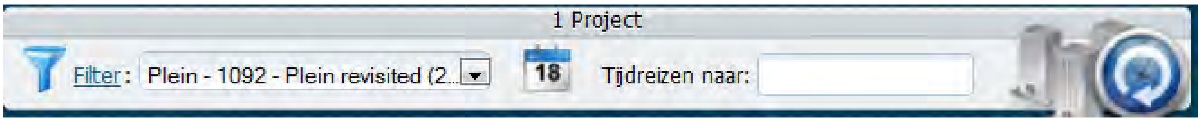
Rol * Beheer
Omschrijving * Applicatiebeheer
Alle Projecten Zichtbaar ☑
Alle Projecten Wijzigen ☐
Alle procesnotities zien ☑
Alle Verjaardagen Zien ☑
Alle Documenten Zien ☑
Toelichting

While entering or modifying data, a '*' is temporarily displayed at the end of the title of the window of the tab, and in the title of the browser. This is a warning for not saved information in a form 22. Next screen shows an example.


Firefox
Processen (N)*
dvt.estate.invantive.com/usr_jdz_bubs/bubs_
invantive
Bestand
Budgetbewaking
CRM

Filter

A user can have access to some of the projects or even to all projects. In general, however, you work only with a few - or just with one project. The filter helps you to filter data in reports and screens so that you can only see and edit the data of the projects where you have access to. To make it easy to put exactly one project in the filter, a drop box is shown in the right corner of each screen:


1 Project
Filter:
18
Tijdreizen naar:

Filter: Plein - 1092 - Plein revisited (2...

Behind the text ‘filter’ the selected filter is shown. As you can see that the filter of the example is ‘project Plein - Plein revisited’. The selected filter also shows the start and end date of the project.

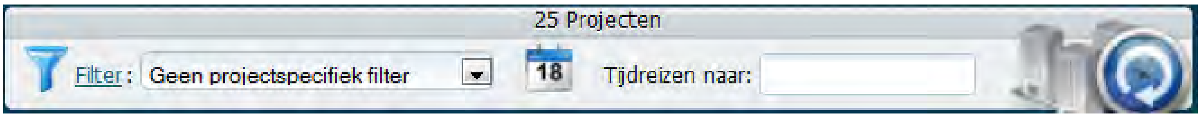
The filter can be changed by using the drop box to select another project. The displayed information is updated immediately. You can change the filter in all screens where the dropbox is shown.

In the drop box all projects are displayed, the only applied filter is if a project is closed or not. This can be set in the submenu My Preferences 41. There you will find a more comprehensive version of the setting of the filter. You can open the screen My Preferences 41 by selecting ‘Filter’.

The settings for the filter which you make in the screen My Preferences 41 will be deleted if you modify the filter in the head of a screen. The exception is the filter setting if the project is completed or not.

At the right side of the picklist, you can see the field ‘Travel Back To’. This field lets you specify the measurement date for which the data in the reports should be shown. If this field is empty, all reports will show the current situation.

The right bottom in the filter shows the number of projects whose details appear on the screens and reports. In the above image one project in the filter is selected and it shows ‘1 Project’. In the picture below no project in the filter is selected and the total number ‘22 Projects’ appears.



25 Projecten

Filter: Geen projectspecifiek filter

Tijdreizen naar:

The meaning of the other fields in the filter:

Start Date	The start of the reporting date range. All data before this date are not reported. The start date can be set in My Preferences 41.
End Date	The end of the reporting date range. All data after this date are not reported. The end date can be set in My Preferences 41.
To Merge	Indicates if subprojects are merged or not. These settings are copied from My Preferences 41.

Menu

The content of the menu can differ per user. The available contents depend on your access rights as established in Role Authorisations 159 and User Roles 158. The structure of the menu depends on organization-wide choices as set in Menus 224 and Menu Items 225.

Crumb Trail

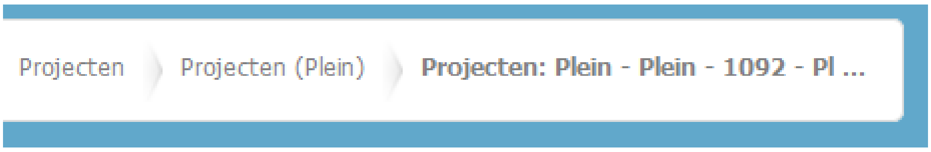
Directly below the menu a ‘crumb trail’ is shown. With the crumb trail you can instantly click back to a previous screen. This functionality is similar to the multiple selection of the ‘back button’ in the browser. However with a crumb trail you can skip steps and you lose less screen space than when you display the history of the browser in a separate part of the screen.

If you open a window and execute a search query, the applied filter is also shown in the crumb trail. This makes it possible to quickly access previous screens with the preferred filter settings. The filter appears behind the screen name in parentheses.

When you open a window, execute a search query and then select a row from the search results, a reference to the selected information will be shown in the crumb trial. This makes it possible to quickly access previous screens that contain the information of your choice.

The selected information in the crumb trail is preceded by the symbol ':'.

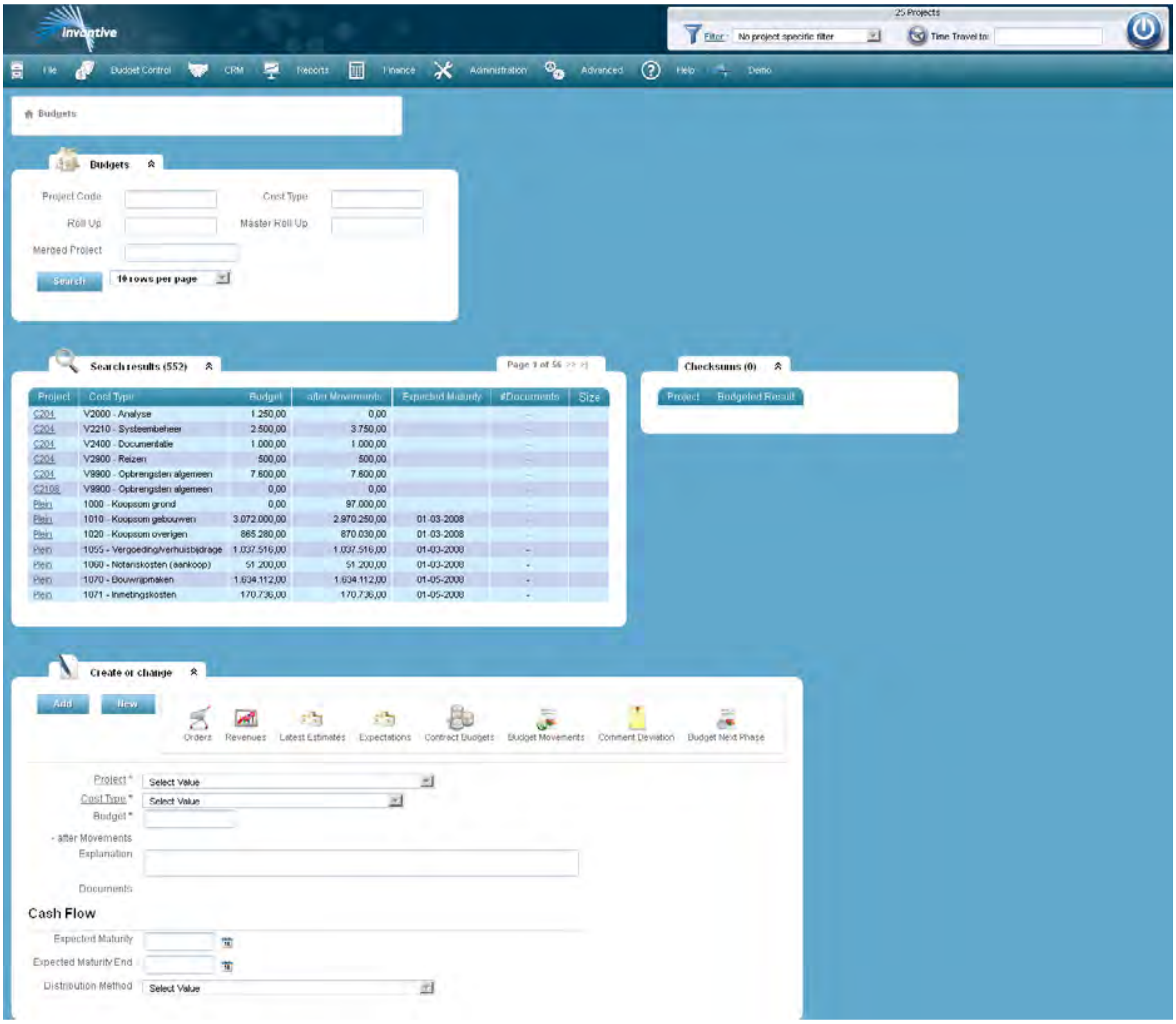
The picture below shows that the last three screens that were opened were 'Projects' screens. First you can see that the screen 'Projects' was opened. In the crumb trail 'Projects' is shown. Then in the search filter the Project Code 'Plein' was specified. In the crumb trail 'Projects (Plein)' is displayed. After this the first row in the search results was selected. In the crumb trail the screen name with a reference to the selected row: 'Projects: Plein - Plein revisited', is displayed.



The length of the crumb trail depends on the number of web pages visited, but is never longer than ten. The maximum number of positions of a name of a web page in the crumb trail is 36.

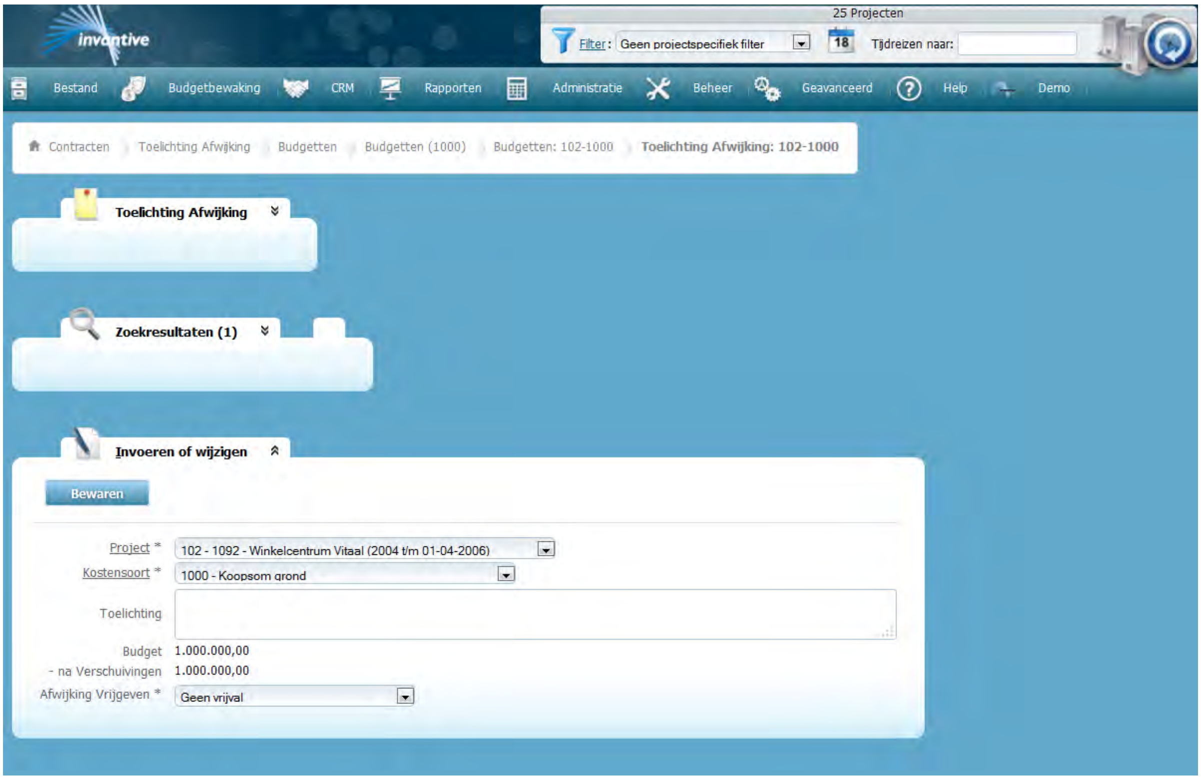
Action Buttons

Action buttons make it easier to navigate within the application. They are shown in the part of the screen where you can 'enter or change' data. With action buttons relevant screens can be opened without using the menu. For example, with the action buttons in the screen 'Budgets' you can easily navigate to the screens 'Invoice Lines', 'Orders', 'Revenues', etc..


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Budgets
Budgets
Project Code
Cost Type
Roll Up
Master Roll Up
Merged Project
Search
10 rows per page
Search results (552)
Page 1 of 56 >> >|
Checksums (0)
Project
Budgeted Result
Create or change
Add
New
Orders
Revenues
Latest Estimates
Expectations
Contract Budgets
Budget Movements
Comment Deviation
Budget Next Phase
Project *
Select Value
Cost Type *
Select Value
Budget *
- after Movements
Explanation
Documents
Cash Flow
Expected Maturity
Expected Maturity End
Distribution Method
Select Value

Project	Cost Type	Budget	after Movements	Expected Maturity	#Documents	Size
C204	V2000 - Analyse	1.250,00	0,00		-	
C204	V2210 - Systeembeheer	2.500,00	3.750,00		-	
C204	V2400 - Documentatie	1.000,00	1.000,00		-	
C204	V2900 - Reizen	500,00	500,00		-	
C204	V9900 - Opbrengsten algemeen	7.600,00	7.600,00		-	
C2108	V9900 - Opbrengsten algemeen	0,00	0,00		-	
Plein	1000 - Koopsom grond	0,00	97.000,00		-	
Plein	1010 - Koopsom gebouwen	3.072.000,00	2.970.250,00	01-03-2008	-	
Plein	1020 - Koopsom overigen	865.280,00	870.030,00	01-03-2008	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1.037.516,00	1.037.516,00	01-03-2008	-	
Plein	1060 - Notariskosten (aankoop)	51.200,00	51.200,00	01-03-2008	-	
Plein	1070 - Bouwrijpmaken	1.634.112,00	1.634.112,00	01-05-2008	-	
Plein	1071 - Inmetingskosten	170.736,00	170.736,00	01-05-2008	-	

If you select a search result in a screen and after that you click on an action button, then if possible, the same search result will appear in the screen that was opened with the action button. For example, after searching for a cost category ‘1000’ in the screen ‘Budgets’, the search filter will automatically be filled with ‘1000’ for cost category in the screen ‘Comment Deviation’.


invantive
25 Projecten
Filter: Geen projectspecifiek filter
18
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Contracten
Toelichting Afwijking
Budgetten
Budgetten (1000)
Budgetten: 102-1000
Toelichting Afwijking: 102-1000
Toelichting Afwijking
Zoekresultaten (1)
Invoeren of wijzigen
Bewaren

Project * 102 - 1092 - Winkelcentrum Vitaal (2004 t/m 01-04-2006)
Kostensoort * 1000 - Koopsom grond
Toelichting
Budget 1.000.000,00
- na Verschuivingen 1.000.000,00
Afwijking Vrijgeven * Geen vrijval

Invantive Logo

The top left of each screen includes the Invantive Logo. Via the Invantive logo you can navigate to the home page of the application

1.2.1.4 All other Screens

The content of the majority of the screens in Invantive Estate has some variable screen elements, besides of some fixed elements (see Openings screen 9). Variable display elements means that the user can turn them on or off as desired (see section View 39).

With variable screen elements you can search, add, modify and delete information. All screens work the same. This means that the way you perform actions is the same in the screens, although the contents of the screen depends on where you are. Invantive Estate has the following variable screen elements:

- Search
- Grid
- Create or Change
- Grid Details
- Data Entry Details

The functions of the variable screen elements are discussed in this chapter.

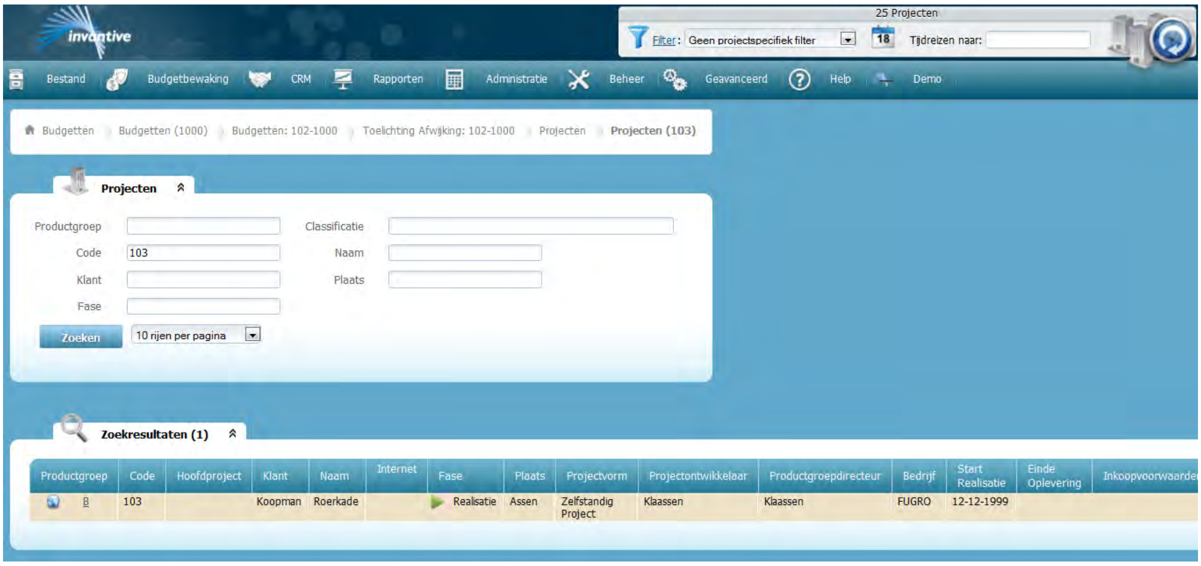
Search

The search function is available in most screens of Invantive Estate. The screen section where you can search is framed and has the same title as the window opened (in this case ‘Projects’). In the lower left part of the frame the ‘Search’ button is located next to a drop box where you can select the number of rows per page the Results 17 should show.

To find information you need to fill in the search filter in the upper part of the frame. The search results will comply with the content of the search filter. To search on project code

‘103’ fill in the field ‘Code’ the value ‘103’ and click on ‘Search’.

In the list of search results only the project with project code ‘103’ is displayed.


invantive
25 Projecten
Filter: Geen projectspecifiek filter
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Budgetten › Budgetten (1000) › Budgetten: 102-1000 › Toelichting Afwijking: 102-1000 › Projecten › Projecten (103)
Projecten
Productgroep
Classificatie
Klant
Naam
Fase
Plaats
Zoeken
Zoekresultaten (1)

Code: 103

10 rijen per pagina

Productgroep	Code	Hoofdproject	Klant	Naam	Internet	Fase	Plaats	Projectvorm	Projectontwikkelaar	Productgroepdirecteur	Bedrijf	Start Realisatie	Einde Oplevering	Inkoopvoorwaarde
B	103		Koopman	Roerkade		▶ Realisatie	Assen	Zelfstandig Project	Klaassen	Klaassen	FUGRO	12-12-1999		

Documents or texts are searched using the SQL operator ‘contains’. The SQL operator ‘contains’ checks whether the searched string is found.

The ‘%’ and ‘_’-characters have a special meaning in the search context.

The ‘%’ sign means ‘any string of characters’ and the ‘_’-sign stands for ‘exactly óne single character’. If you do not know part of the word that you want to search on, then fill in the percent sign for the part that you don't know. Every word in which the searched word appears, preceded and followed by text, will be included in the search results. For example ‘Maas% eik’ provides both ‘Maas aan de eik’ and ‘Winkel Maaseik’.

In the same way the ‘_’-character has a special meaning when used with searching and it stands for ‘any single character’. If for instance you search for ‘_aas’, you will find ‘Maas’ as well as ‘maas’.

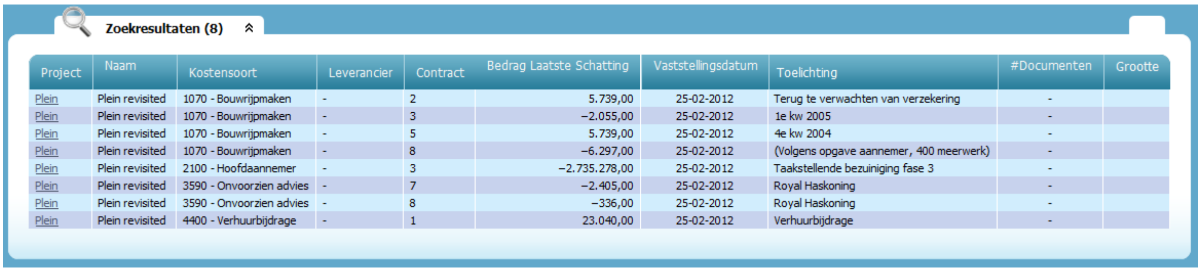
Note that using ‘%’ and ‘_’ is only possible in text fields. They have no special function in fields where you enter an amount or date.

Warning! Searching is capital sensitive. ‘MAAS’ is something else than ‘Maas’ and will provide different search results.

Grid

The part of the screen where the search results are shown with the title ‘Search Results’with behind it in parenthesis the number of rows that comply with the search filter.

The right side of the frame shows how many pages the search result contains and which page is currently displayed. Furthermore here are the buttons to navigate within the search results.


Zoekresultaten (8)

Project	Naam	Kostensoort	Leverancier	Contract	Bedrag Laatste Schatting	Vaststellingsdatum	Toelichting	#Documenten	Grootte
Plein	Plein revisited	1070 - Bouwrijpmaken	-	2	5.739,00	25-02-2012	Terug te verwachten van verzekering	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	-	3	–2.055,00	25-02-2012	1e kw 2005	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	-	5	5.739,00	25-02-2012	4e kw 2004	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	-	8	–6.297,00	25-02-2012	(Volgens opgave aannemer, 400 meerwerk)	-	
Plein	Plein revisited	2100 - Hoofdaannemer	-	3	–2.735.278,00	25-02-2012	Taakstellende bezuiniging fase 3	-	
Plein	Plein revisited	3590 - Onvoorzien advies	-	7	–2.405,00	25-02-2012	Royal Haskoning	-	
Plein	Plein revisited	3590 - Onvoorzien advies	-	8	–336,00	25-02-2012	Royal Haskoning	-	
Plein	Plein revisited	4400 - Verhuurbijdrage	-	1	23.040,00	25-02-2012	Verhuurbijdrage	-	

‘Search results’ contains columns that you can use to sort ‘Search results’. By clicking on a column head, the selection is sorted on the values in the selected column. If you click on the column header once more, the sorting will happen in the reverse order (descending instead of ascending).

The results and the search area are automatically hidden when a row under ‘Search results’ is selected. You can unhide them by clicking on the title ‘Search Results’.

If the grid contains only one row, this row will automatically be shown in the lower part of the screen where you can edit or delete data. In this way you do not have to search for this row, and then select it to be able to edit or delete the data in this row.

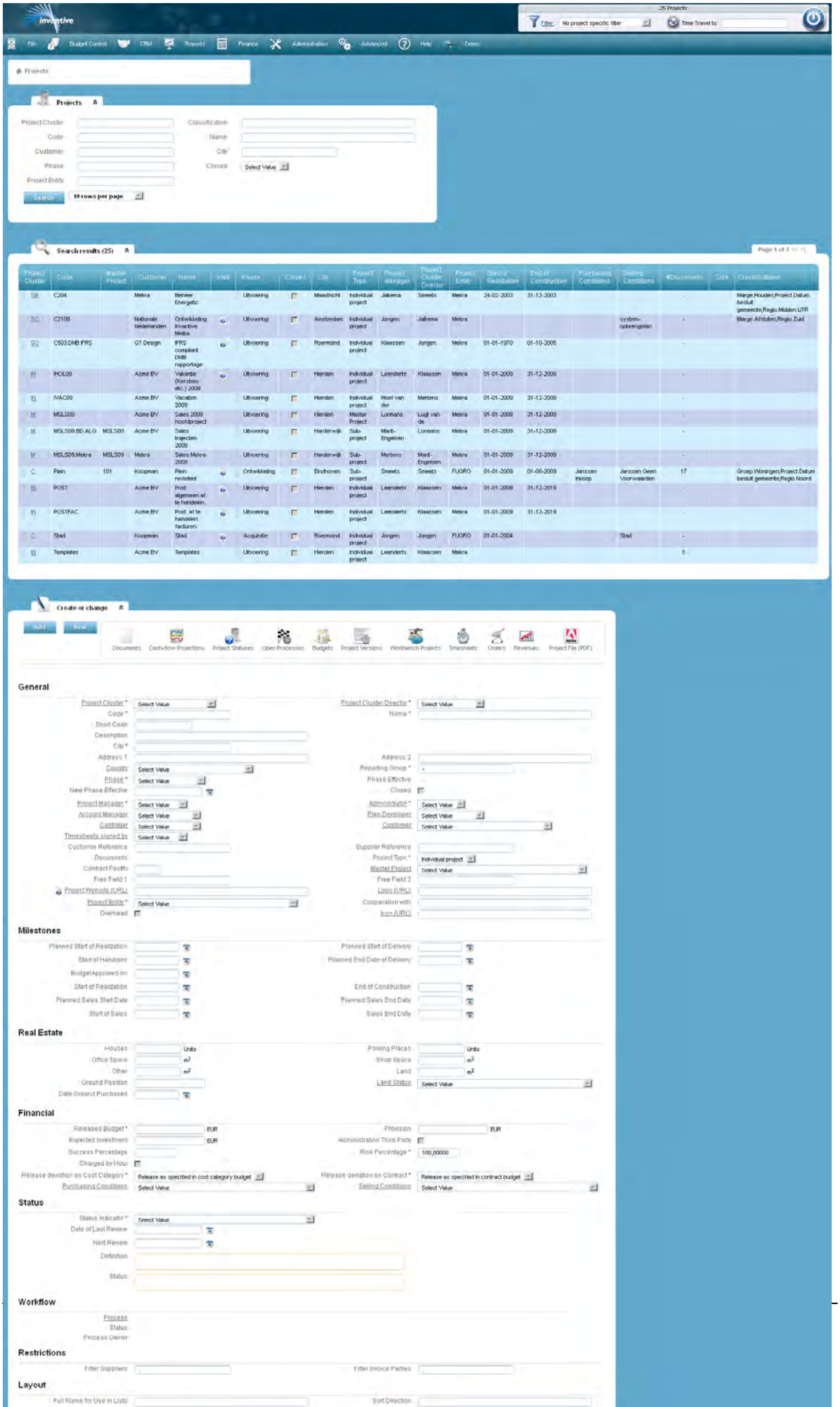
Create or Change

This section describes the types of data entry fields and how to add, change or delete data. Important tools to be used in this process are Forms 22.

Input Types

This section describes the field types you may encounter when entering or modifying data and what kind of data you can enter in the different field types.

As an example let's see ‘Projects’.



Project Cluster
Code
Customer
Phase
Project Entity
Classification
Name
City
Closed: Select Value

Project Cluster	Code	Master Project	Customer	Name	Web	Phase	Closed	City	Project Type	Project Manager	Project Cluster Director	Project Entity	Start of Realization	End of Construction	Purchasing Conditions	Selling Conditions	#Documents	Size	Classifications
SB	C204		Mekra	Beheer Energetic		Uitvoering	☐	Maastricht	Individual project	Jalkema	Smeets	Mekra	24-02-2003	31-12-2003			-		Marge Houden;Project Datum besluit gemeente;Regio Midden UTR
SO	C2108		Nationale Nederlanden	Ontwikkeling Invantive Melba	🌐	Uitvoering	☐	Amsterdam	Individual project	Jongen	Jalkema	Mekra				system-opbrengsten	-		Marge Afstoten;Regio Zuid
SO	C503.DNB IFRS		QT Design	IFRS compliant DNB rapportage	🌐	Uitvoering	☐	Roermond	Individual project	Klaassen	Jongen	Mekra	01-01-1970	01-10-2005			-		
IN	IHOL09		Acme BV	Vakantie (Kerstmis etc.) 2009	🌐	Uitvoering	☐	Hierden	Individual project	Leenderts	Klaassen	Mekra	01-01-2009	31-12-2009			-		
IN	IVAC09		Acme BV	Vacation 2009		Uitvoering	☐	Hierden	Individual project	Hoef van der	Mertens	Mekra	01-01-2009	31-12-2009			-		
M	MSLS09		Acme BV	Sales 2009 hoofdproject		Uitvoering	☐	Hierden	Master Project	Lormans	Lugt van de	Mekra	01-01-2009	31-12-2009			-		
M	MSLS09.BD ALG	MSLS09	Acme BV	Sales trajecten 2009		Uitvoering	☐	Harderwijk	Sub-project	Marit-Engelsen	Lormans	Mekra	01-01-2009	31-12-2009			-		
M	MSLS09.Mekra	MSLS09	Mekra	Sales Mekra 2009		Uitvoering	☐	Harderwijk	Sub-project	Mertens	Marit-Engelsen	Mekra	01-01-2009	31-12-2009			-		
C	Plein	101	Koopman	Plein revisited	🌐	Ontwikkeling	☐	Eindhoven	Sub-project	Smeets	Smeets	FUGRO	01-01-2009	01-08-2009	Janssen Inkoop	Janssen Geen Voorwaarden	17		Groep Woningen;Project Datum besluit gemeente;Regio Noord
IN	POST		Acme BV	Post algemeen af te handelen.	🌐	Uitvoering	☐	Hierden	Individual project	Leenderts	Klaassen	Mekra	01-01-2009	31-12-2019			-		
IN	POSTFAC		Acme BV	Post af te handelen facturen.	🌐	Uitvoering	☐	Hierden	Individual project	Leenderts	Klaassen	Mekra	01-01-2009	31-12-2019			-		
C	Stad		Koopman	Stad	🌐	Acquisitie	☐	Roermond	Individual project	Jongen	Jongen	FUGRO	01-01-2004			Stad	-		
IN	Templates		Acme BV	Templates		Uitvoering	☐	Hierden	Individual project	Leenderts	Klaassen	Mekra					6		

General

Project Cluster *: Select Value
Project Cluster Director *: Select Value
Code *
Name *
Short Code
Description
City *
Address 1
Address 2
Country: Select Value
Reporting Group *
Phase *: Select Value
Phase Effective
New Phase Effective
Closed: ☐
Project Manager *: Select Value
Administrator *: Select Value
Account Manager: Select Value
Plan Developer: Select Value
Controller: Select Value
Customer: Select Value
Timesheets signed by: Select Value
Customer Reference
Supplier Reference
Documents
Project Type *: Individual project
Contract Postfix
Master Project: Select Value
Free Field 1
Free Field 2
Project Website (URL)
Logo (URL)
Project Entity *: Select Value
Cooperation with
Overhead: ☐
Icon (URL)

Milestones

Planned Start of Realization
Planned Start of Delivery
Start of Handover
Planned End Date of Delivery
Budget Approved on
Start of Realization
End of Construction
Planned Sales Start Date
Planned Sales End Date
Start of Sales
Sales End Date

Real Estate

Houses: Units
Parking Places: Units
Office Space: m²
Shop Space: m²
Other: m²
Land: m²
Ground Position
Land Status: Select Value
Date Ground Purchased

Financial

Released Budget *: EUR
Provision: EUR
Expected Investment: EUR
Administration Third Party: ☐
Success Percentage
Risk Percentage *: 100,00000
Charged by Hour: ☐
Release deviation on Cost Category *: Release as specified in cost category budget
Release deviation on Contract *: Release as specified in contract budget
Purchasing Conditions: Select Value
Selling Conditions: Select Value

Status

Status Indicator *: Select Value
Date of Last Review
Next Review
Definition
Status

Workflow

Process
Status
Process Owner

Restrictions

Filter Suppliers
Filter Invoice Parties

Layout

Full Name for Use in Lists
Sort Direction

Entry Fields

An example of an entry field is the white box next to ‘Code’. In a field like this you can enter a ‘free text’. This means you can choose - within certain boundaries - what you fill in. In the example of ‘Code’ you can enter the project code which is assigned by the administration. When you enter text into a ‘free text field’ it gets a red border.

Required fields

The fields that are marked with a ‘*’ are required. An example of such a field is the field 'City':

Amounts

All amounts are in Euros and will be written in the European way. This means that thousands are separated by a period and that the separation of whole and decimal numbers is shown by a comma. For instance: 123.456,78. If you use an American version of other software you have to pay attention to not change the way of writing numbers. The American way of noting numbers is the exact opposite of our way, for example 123,456.78.

If you enter a number with a decimal, you need to use the comma key (‘,‘). All points are considered thousands separators and are not looked at regardless of the place of the number. An input of ‘8.5’ is therefore treated as ‘85’.

The amounts you enter are left aligned. This means these can be found on the left side of the field. If the amounts are already entered, they are automatically right aligned. If you, for example, in the screen section, where you can search, enter a number you will see that the number is left aligned.

Percentages

Furthermore, there are fields where a percentage is requested (such as ‘Estimated Success Percentage’). You do not need to enter the percentage sign here.

Slagingspercentage
%

Dates

When asked for a date (Example: ‘Expose Date’) then you are supposed to enter the date yourself. A date can be entered in multiple ways. Allowed input formats are:

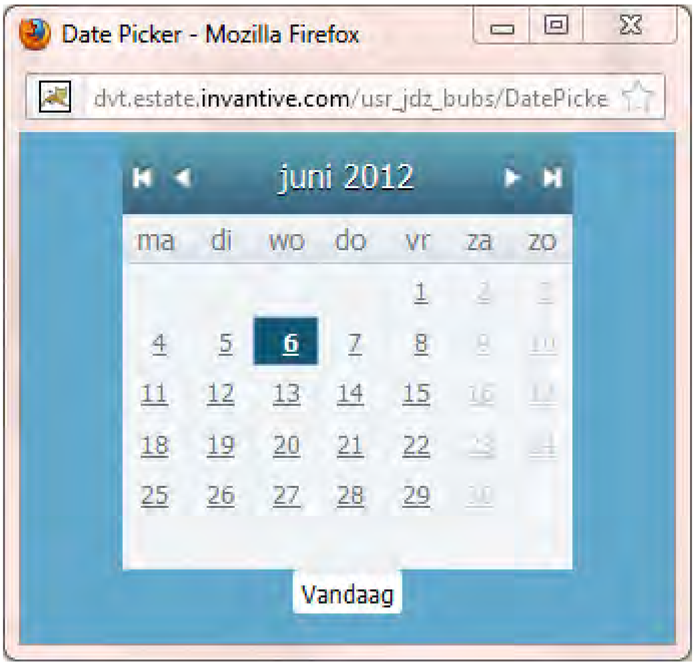
- ddmm
- ddmmyy
- ddmmyyyy
- dd-mm-yyyy
- dd/mm/yyyy
- dd-mm-yy
- dd.mm.yy
- dd/mm/yy

The significance of the date format is as follows:

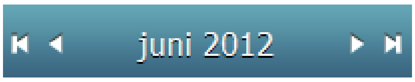
- ‘dd’ indicates a two digit format of the day of the month from ‘01’ to ‘31’.
- ‘mm’ indicates a two digit format of the month in the year where ‘01’ stands for January, ‘02’ stands for February .. etc..
- ‘yy’ indicates a two digit notation of the year, for example ‘09’ stands for the year ‘2009’.
- ‘yyyy’ indicates a four digit format of the year, for example ‘2009’.

You can also click on the calender icon next to the input field:

A calendar appears:


Date Picker - Mozilla Firefox
dvt.estate.invantive.com/usr_jdz_bubs/DatePicke
juni 2012
ma di wo do vr za zo
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30
Vandaag

Select the day by clicking on one of the numbers in the calendar. If you select ‘today’ automatically the current date will be used. You can change the month by clicking on one of the two most inside white arrows - in the image below. The arrow to the right means a month forward. The arrow to the left means a month backward.



You can change the year by clicking on the two outer arrows. The arrow to the right means a year forward. The arrow to the left means a year backward.

If you want more than only change the day, you have to ensure that you change the day at the end. This is because after changing the day you will come back to the menu.

Times

When asked to enter a time, the following input formats can be used:

- hhmm
- hmm
- mm

- m
- h:mm
- h:m
- u.m
- h/m

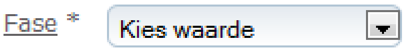
In this case the abbreviation ‘mm’ is minutes and not months as in the date format, ‘uu’ stands for hours.

Date Time Fields

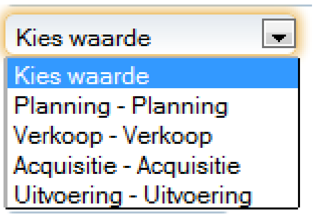
In date/time fields, first the date is entered and subsequently the time. The distinction between date and time is indicated by a space. The above given input formats show the way the date and time can be entered.

Drop Boxes

With drop boxes only valid choices can be made. If you hover above the drop box with the mouse pointer for a moment, you can see how many values are inside. A drop box functions as follows: the field next to ‘Stage’ in the example below, is a drop box. As shown a value already was selected: ‘Acquisition’.



You can change the content of this drop box by clicking on the little square. This opens the drop box and it will get the shape of the following image:



Now you can choose five values, ‘Select value’, ‘Planning’, ‘Acquisition’, ‘Development’ and ‘Realization’. To choose you click on one of the possibilities. The drop box closes itself and your choice is recorded.

Check boxes

A final way to enter data in the screens is via check boxes. This is used when there are only two options: yes or no. If you check the box, you choose ‘yes’ and vice versa. An example of a check mark you can see in the image below:

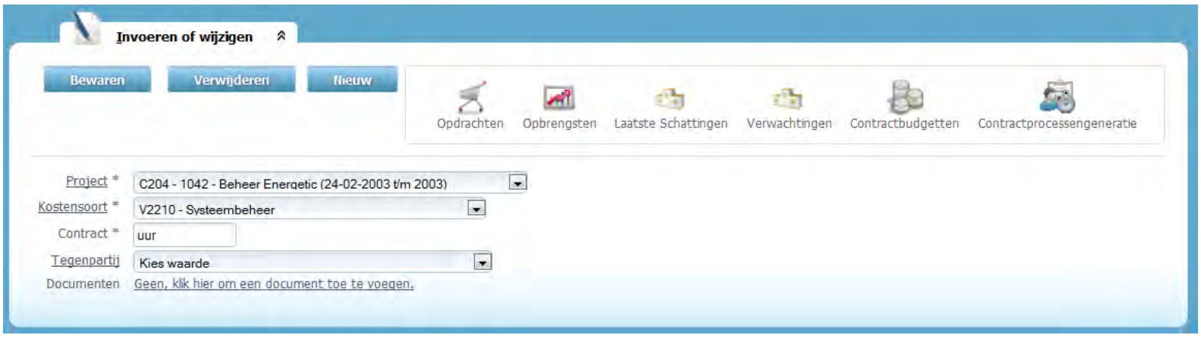
The check is done by clicking on the white square or in the accompanying text or by selecting the white square with the cursor and then pressing the space bar. The field will look as follow:

Forms

The data in the screens of Invantive Estate is shown in forms. A form is a cohesive and structured group of data. The use of forms makes it clear and easy to enter or edit data in the database.

In some screens, the data is shown in multiple forms. At the top of the screen the master form is shown with the detail forms below. The data in the detail forms are linked to the data in the master form. The use of master- and detail forms in one screen prevents that you have to open multiple screens when you need to change related data. Each (sub)form is characterized by a framed section of the screen with the title of the (sub)form shown in the left upper corner of the frame.

The section of a form where you can add, change or delete data, is framed and has the name ‘Create or Change’.


Invoeren of wijzigen
Bewaren
Verwijderen
Nieuw
Opdrachten
Opbrengsten
Laatste Schattingen
Verwachtingen
Contractbudgetten
Contractprocessengeneratie

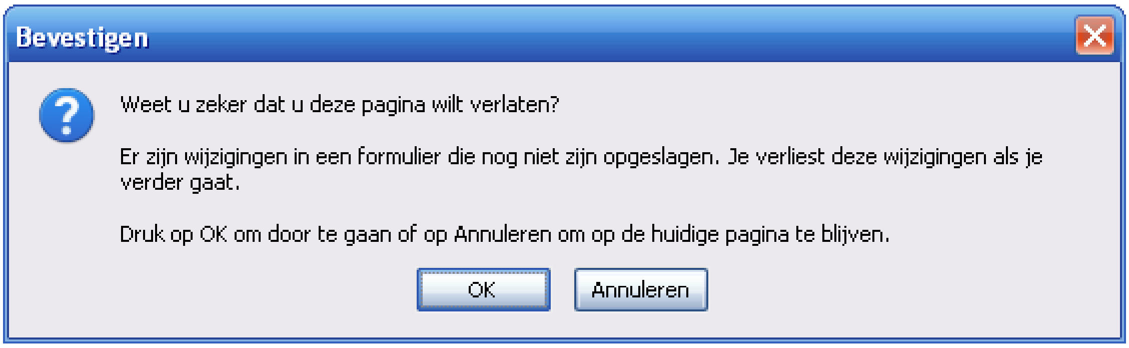
Project * C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003)
Kostensoort * V2210 - Systeembeheer
Contract * uur
Tegenpartij Kies waarde
Documenten Geen, klik hier om een document toe te voegen.

Add New Data

Open the screen where you would like to add new data. Enter the new information in the form 22 and then select ‘Add’. The data is now saved. If you do not want to save the data, select ‘New’.

Toevoegen
Nieuw

To prevent that you accidentally delete the data just entered without saving, the following message appears:


Bevestigen

Weet u zeker dat u deze pagina wilt verlaten?

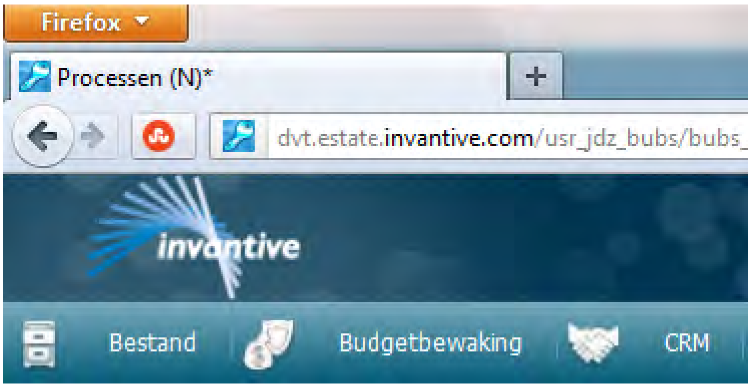
Er zijn wijzigingen in een formulier die nog niet zijn opgeslagen. Je verliest deze wijzigingen als je verder gaat.

Druk op OK om door te gaan of op Annuleren om op de huidige pagina te blijven.

OK
Annuleren

If you select ‘OK’, your data entry will disappear.

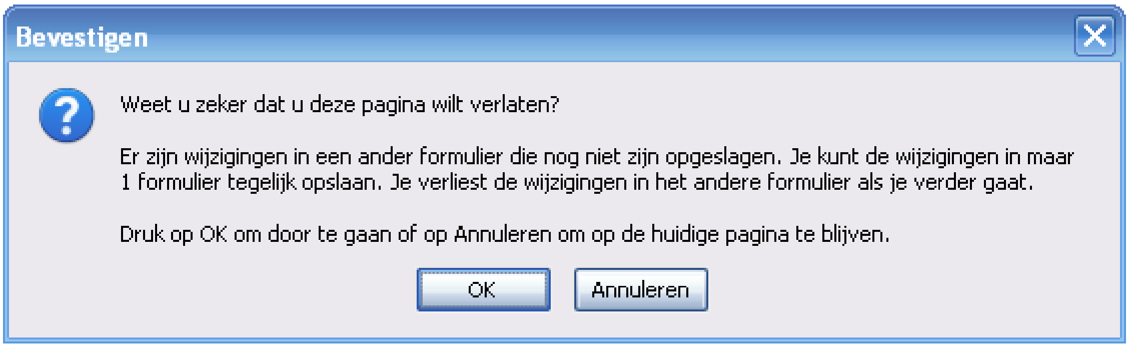
While entering or modifying data a temporarily asterisk (‘*’) will appear after the title of the tab window and in the title of the browser. This is a warning for not saved information in a Form 22.



Create or Change Data

Open the screen where you would like to create or change data. Search the desired data with Search 16. Then select the correct row in Search results 17. The screen section with the ‘Search results’ is now folded and in the screen section ‘Create or Change’ the selected data is shown. The data can be modified or deleted. Once you have adjusted the data, it can be saved by selecting ‘Save’. If you want to ignore the changes you have made and want to return to the screen where the results are displayed, select ‘New’.

In some screens multiple Forms 22 are shown. Adjustments have to be made and saved for each separate form. In case you change multiple forms at the same time and then you select ‘Add’ in one form, the next message appears:



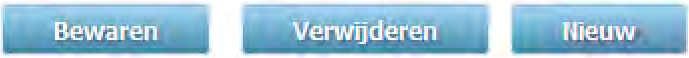
Weet u zeker dat u deze pagina wilt verlaten?

Er zijn wijzigingen in een ander formulier die nog niet zijn opgeslagen. Je kunt de wijzigingen in maar 1 formulier tegelijk opslaan. Je verliest de wijzigingen in het andere formulier als je verder gaat.

Druk op OK om door te gaan of op Annuleren om op de huidige pagina te blijven.

If you need to delete data, first search the concerning information (Searching 16), then select this information and then select the button ‘Delete’. You can only delete data if they are not used anywhere else.

Warning! You can only add, change and delete data if you have the rights to do so. If you have no rights to delete data, then the ‘Delete’ button will not be shown.



1.2.1.5 Reports

The menu option reports allows you to retrieve all kind of information about a project.

Formats

Every report is available in the Adobe Reader or Adobe Acrobat PDF format and in the Microsoft Excel XLS format. The information in both report formats (Excel and Acrobat) is exactly the same. The only difference is the layout in Microsoft Excel, which isn't as good as the layout in a PDF file. The program ‘Adobe Reader’ is free available on the Adobe Website.

Direct link

You can quickly edit data when you are viewing reports. The detail data that can be changed (orders, returns, and adjustments of cost) will have hyperlinks. By clicking on the desired hyperlink in the report, Invantive Estate will be opened automatically. In case you're not logged in, Invantive Estate will ask you to log in. After you log in, Invantive Estate will open the screen that contains the source data which is used to produce the report (in case you have the required rights). If you have the rights to edit data, yu can customize the numbers. Then you can update the report by a rerun. The report will now show the edited numbers.

1.2.1.6 Shortcuts

You can use many functions of the program by using shortcuts.

For the most occurring actions in every screen, you can use shortcuts. You will get no visual hints of this. The following shortcuts are available:

- A: Add.
- S: Save.
- D: Delete.
- S: Search.
- C: Filter.
- K: Focus on search.
- I: Focus on entry.
- F: First page of search results.
- L: Last page of search results.
- P: Previous page search results.
- N: Next page search results.
- F2: Open Menu, see Menu 13.

To use a shortcut, use the following code: ‘Alt’ + the corresponding letter. For example, if you want to add information, then type (after you have completed the data) Alt + T.

Note: for Firefox 2.0 and newer versions, you have to use the 'Alt' key together with the 'Shift' key en de desbetreffende letter.

1.2.1.7 Full Screen Option

The F11 key lets you run the application without showing the edges of the browser. To return to the browser you use the F11 key again.

1.2.1.8 Zoom In and Zoom Out

The following key combinations can be used to zoom in and out:

- Zoom in: Ctrl+Plus
- Zoom out: Ctrl+Minus
- Zoom to 100%: Ctrl+0

Instead of the ‘Plus’ or ‘Minus’ button you can also use the scroll wheel of the mouse while holding down the Ctrl key::

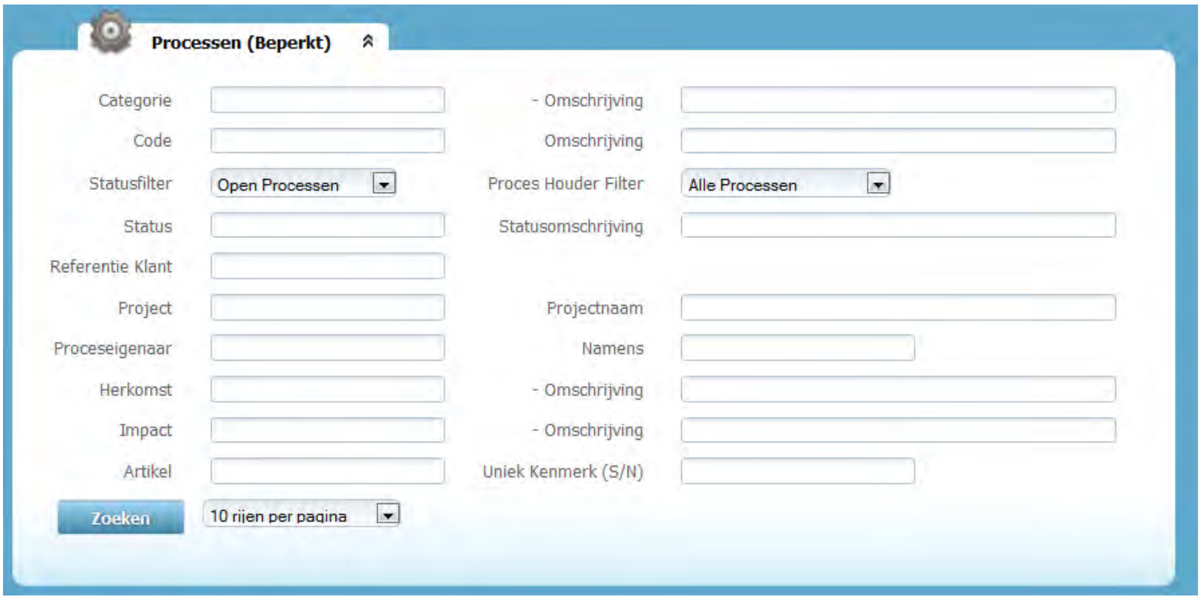
- Zoom In: Ctrl+scroll wheel move up
- Zoom out:Ctrl+scroll wheel move down

1.2.1.9 Roll Down and Roll Up

A screen in Invantive Estate has some fixed components. The section View 39 describes the menu options with which you can hide or unhide the appearance of these screen elements.

Besides the option to hide or unhide, the information shown in these screen elements can be rolled up or rolled down.

The following image shows the information in the screen section ‘Processes (Restricted)’.

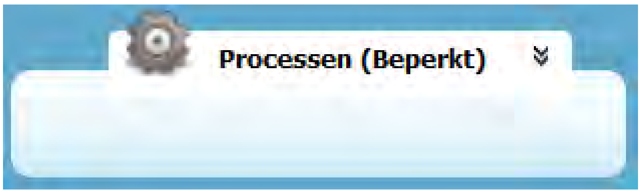

Processen (Beperkt)
Categorie
Code
Status
Referentie Klant
Project
Proceseigenaar
Herkomst
Impact
Artikel
- Omschrijving
Omschrijving
Statusomschrijving
Projectnaam
Namens
- Omschrijving
- Omschrijving
Uniek Kenmerk (S/N)
Zoeken

Statusfilter: Open Processen

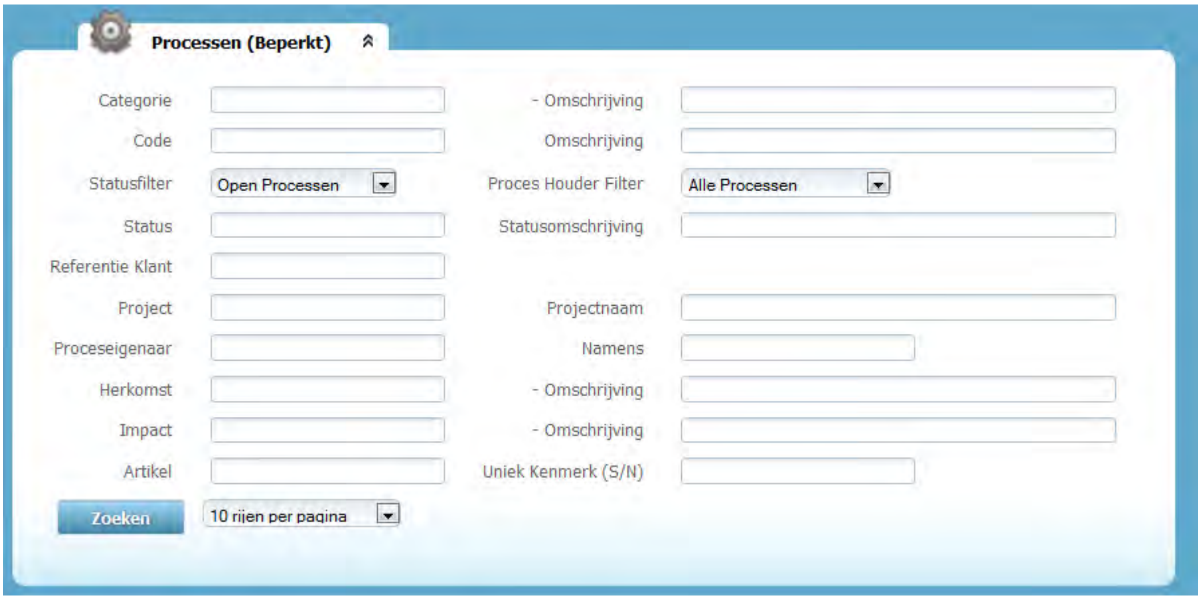
Proces Houder Filter: Alle Processen

10 rijen per pagina

The arrow pointing up ︽ next to ‘Processes (Restricted)’ indicates that the information shown in this part of the screen can be rolled up. You can do this by clicking once on the text in the box. The following screen shows the result.


Processen (Beperkt)

The arrow pointing down ︾ next to ‘Processes (Restricted)’ indicates that the information show in this part of the screen can be rolled down. You can do this by clicking once on the text in the box. The information contained in this section of the screen appears again.

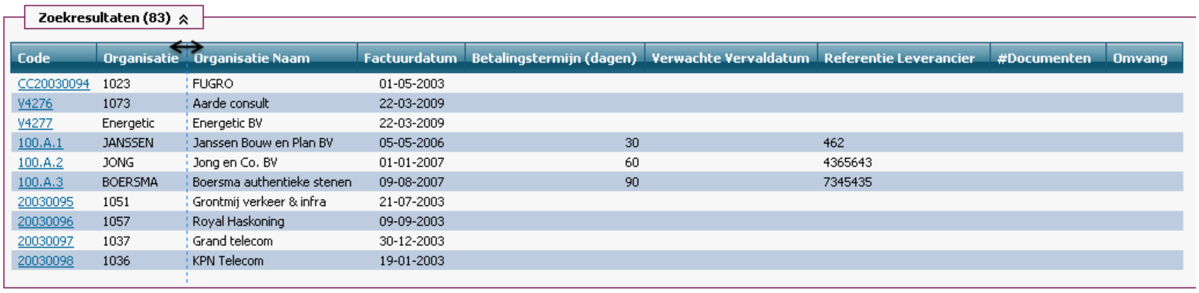


Processen (Beperkt)

Categorie		- Omschrijving	
Code		Omschrijving	
Statusfilter	Open Processen	Proces Houder Filter	Alle Processen
Status		Statusomschrijving	
Referentie Klant			
Project		Projectnaam	
Proceseigenaar		Namens	
Herkomst		- Omschrijving	
Impact		- Omschrijving	
Artikel		Uniek Kenmerk (S/N)	

1.2.1.10 Change Column Width

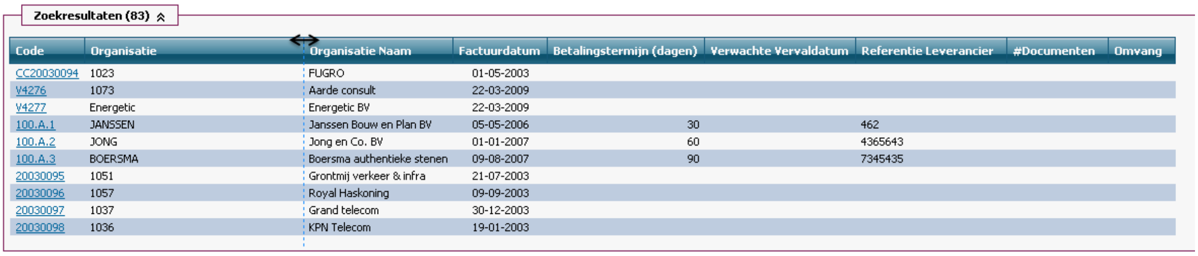
Columns can be made wider or narrower by moving the cursor in a column header over the border with another column header. The cursor changes in that moment in a horizontal double arrow. Now select the left mouse button. Under the double-sided arrow appears a blue dotted line.



Zoekresultaten (83)

Code	Organisatie	Organisatie Naam	Factuurdatum	Betalingstermijn (dagen)	Verwachte Vervaldatum	Referentie Leverancier	#Documenten	Omvang
CC20030094	1023	FUGRO	01-05-2003					
V4276	1073	Aarde consult	22-03-2009					
V4277	Energetic	Energetic BV	22-03-2009					
100.A.1	JANSSEN	Janssen Bouw en Plan BV	05-05-2006	30		462		
100.A.2	JONG	Jong en Co. BV	01-01-2007	60		4365643		
100.A.3	BOERSMA	Boersma authentieke stenen	09-08-2007	90		7345435		
20030095	1051	Grontmij verkeer & infra	21-07-2003					
20030096	1057	Royal Haskoning	09-09-2003					
20030097	1037	Grand telecom	30-12-2003					
20030098	1036	KPN Telecom	19-01-2003					

This indicates that you can make the column wider or smaller by moving the mouse. In the picture below the column ‘Organization’ has been made wider.



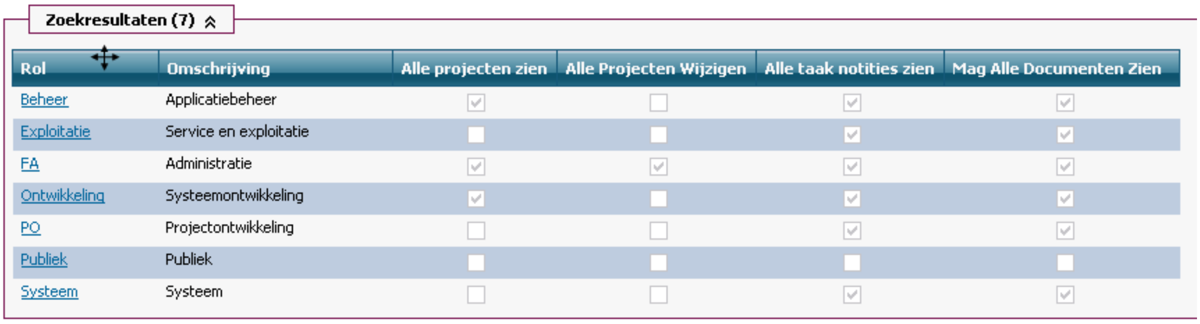
Zoekresultaten (83)

Code	Organisatie	Organisatie Naam	Factuurdatum	Betalingstermijn (dagen)	Verwachte Vervaldatum	Referentie Leverancier	#Documenten	Omvang
CC20030094	1023	FUGRO	01-05-2003					
V4276	1073	Aarde consult	22-03-2009					
V4277	Energetic	Energetic BV	22-03-2009					
100.A.1	JANSSEN	Janssen Bouw en Plan BV	05-05-2006	30		462		
100.A.2	JONG	Jong en Co. BV	01-01-2007	60		4365643		
100.A.3	BOERSMA	Boersma authentieke stenen	09-08-2007	90		7345435		
20030095	1051	Grontmij verkeer & infra	21-07-2003					
20030096	1057	Royal Haskoning	09-09-2003					
20030097	1037	Grand telecom	30-12-2003					
20030098	1036	KPN Telecom	19-01-2003					

The column cannot be made smaller than the largest word in the column title. The width of a column is unlimited.

1.2.1.11 To Move Columns

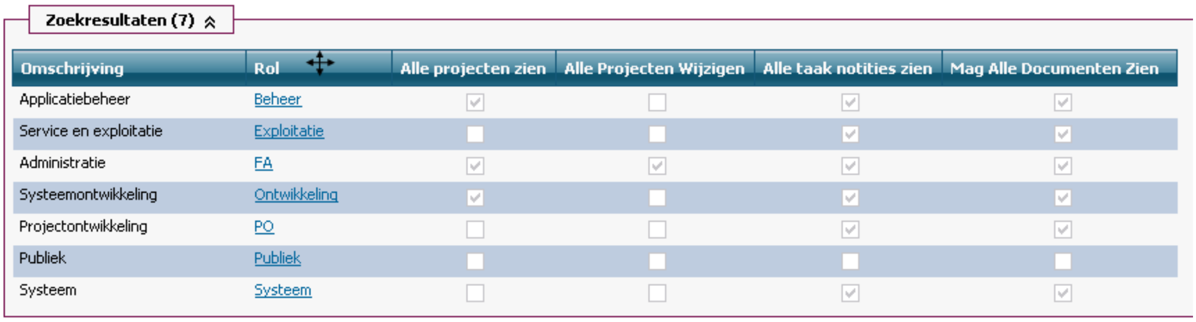
When you move the cursor in the middle of a column header it changes to a character with 4 arrows ✥ .



Rol	Omschrijving	Alle projecten zien	Alle Projecten Wijzigen	Alle taak notities zien	Mag Alle Documenten Zien
Beheer	Applicatiebeheer	☑	☐	☑	☑
Exploitatie	Service en exploitatie	☐	☐	☑	☑
FA	Administratie	☑	☑	☑	☑
Ontwikkeling	Systeemontwikkeling	☑	☐	☑	☑
PO	Projectontwikkeling	☐	☐	☑	☑
Publiek	Publiek	☐	☐	☐	☐
Systeem	Systeem	☐	☐	☑	☑

Now select the left mouse button and hold it down. Now you can drag the column to another position in the table.

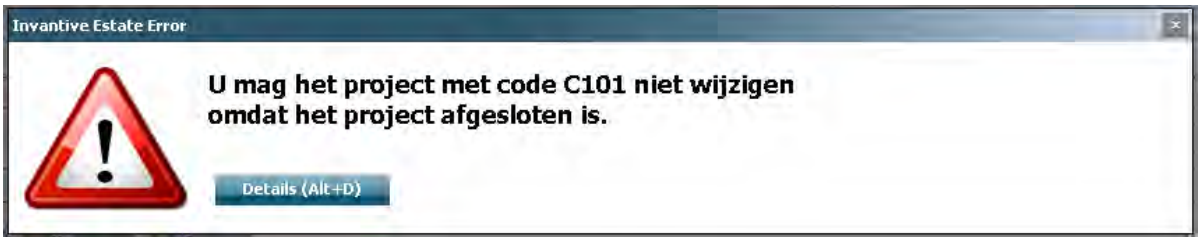
In this way the column ‘Roll’ was placed behind the column ‘Description’ as shown in the picture below.



Omschrijving	Rol	Alle projecten zien	Alle Projecten Wijzigen	Alle taak notities zien	Mag Alle Documenten Zien
Applicatiebeheer	Beheer	☑	☐	☑	☑
Service en exploitatie	Exploitatie	☐	☐	☑	☑
Administratie	FA	☑	☑	☑	☑
Systeemontwikkeling	Ontwikkeling	☑	☐	☑	☑
Projectontwikkeling	PO	☐	☐	☑	☑
Publiek	Publiek	☐	☐	☐	☐
Systeem	Systeem	☐	☐	☑	☑

1.2.1.12 Errors

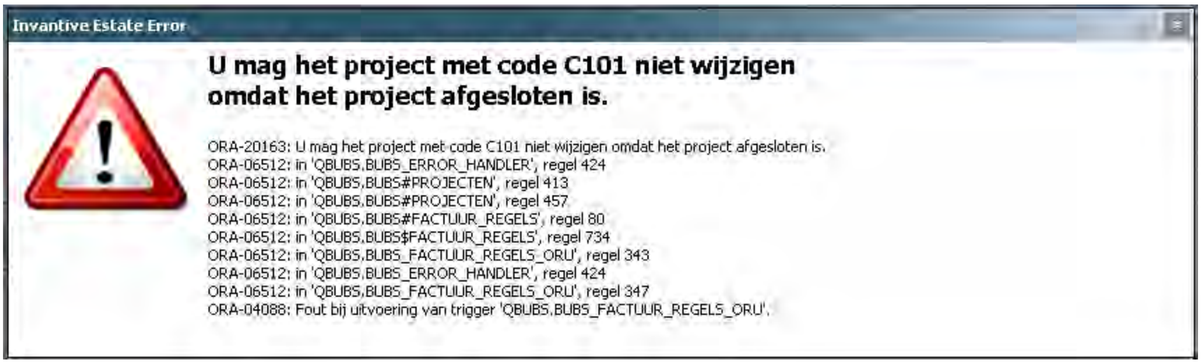
The data which is registered in Invantive Estate must meet certain standards in order to allow a good functioning of the system. Sometimes certain changes do not meet these rules which will lead to an error message as shown in the example below.



U mag het project met code C101 niet wijzigen omdat het project afgesloten is.

With the shortcut Alt + O you can close the window with the error message. Try to remove the cause and then try again to save your changes.

You can obtain the details of the error via the shortcut Alt + D.



U mag het project met code C101 niet wijzigen omdat het project afgesloten is.

```
ORA-20163: U mag het project met code C101 niet wijzigen omdat het project afgesloten is.
ORA-06512: in 'QBUBS.BUBS_ERROR_HANDLER', regel 424
ORA-06512: in 'QBUBS.BUBS#PROJECTEN', regel 413
ORA-06512: in 'QBUBS.BUBS#PROJECTEN', regel 457
ORA-06512: in 'QBUBS.BUBS#FACTUUR_REGELS', regel 80
ORA-06512: in 'QBUBS.BUBS$FACTUUR_REGELS', regel 734
ORA-06512: in 'QBUBS.BUBS_FACTUUR_REGELS_ORU', regel 343
ORA-06512: in 'QBUBS.BUBS_ERROR_HANDLER', regel 424
ORA-06512: in 'QBUBS.BUBS_FACTUUR_REGELS_ORU', regel 347
ORA-04088: Fout bij uitvoering van trigger 'QBUBS.BUBS_FACTUUR_REGELS_ORU'.
```

1.2.1.13 To Link Documents

In a number of screens you can link documents to already existing data. This concerns the following screens:

- Budget Movements 75
- Budgets 149
- Contract Budgets 73
- Invoice Lines 138
- Projects 124
- Latest estimations 67
- Revenues 69
- Orders 65
- Organizations 93
- Persons 97
- Processes 53

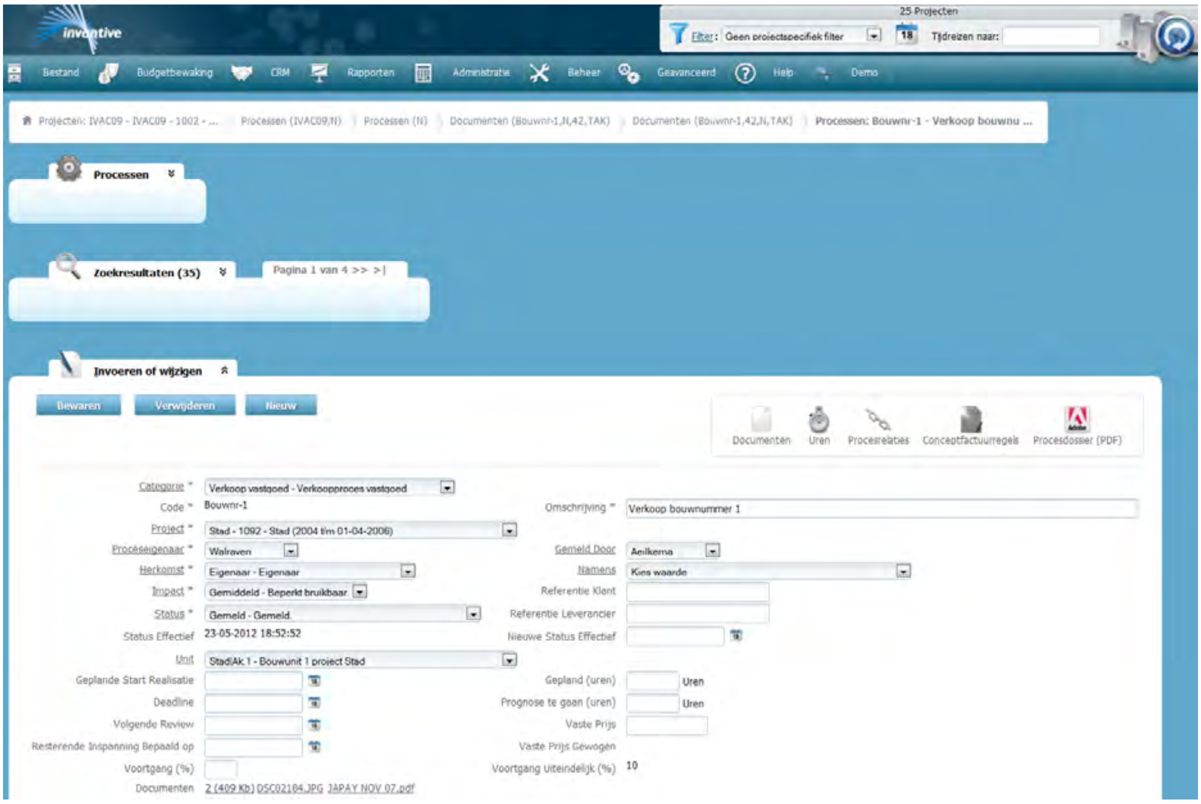
Furthermore background processes can be linked to documents which contain the output of the background processes. You cannot change these documents manually, since they are made by Invantive Estate. See Background Processes 220.

In all these screens the search result shows the column '#Documents' which shows the number of linked documents and the column 'Size' which shows the total size of these documents.

In the input section appears more information about the linked documents behind the heading 'Documents' as soon as in the search results a document is selected.

It says 'None, click here to add a document' if no documents are linked yet. If less than three documents are linked, the number of documents is displayed together with the total size in parentheses, plus the direct links to the documents. If three or more linked documents are linked, the number of documents is displayed together with the total size in parentheses, plus the direct link to the oldest document, plus the direct link to the most recent document.

For example:

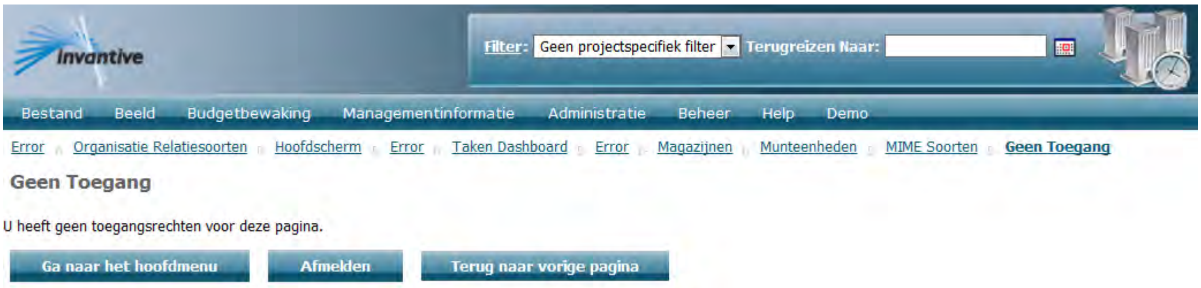

invantive
25 Projecten
Filter: Geen projectspecifiek filter
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Projecten: IVAC09 - IVAC09 - 1002 - ...
Processen (IVAC09,N)
Processen (N)
Documenten (Bouwnr-1,N,42,TAK)
Documenten (Bouwnr-1,42,N,TAK)
Processen: Bouwnr-1 - Verkoop bouwnu ...
Processen
Zoekresultaten (35)
Pagina 1 van 4 >> >|
Invoeren of wijzigen
Bewaren
Verwijderen
Nieuw
Documenten
Uren
Procesrelaties
Conceptfactuurregels
Procesdossier (PDF)

Categorie * Verkoop vastgoed - Verkoopproces vastgoed
Code * Bouwnr-1
Omschrijving * Verkoop bouwnummer 1
Project * Stad - 1092 - Stad (2004 t/m 01-04-2006)
Proceseigenaar * Walraven
Gemeld Door Aeilkema
Herkomst * Eigenaar - Eigenaar
Namens Kies waarde
Impact * Gemiddeld - Beperkt bruikbaar
Referentie Klant
Status * Gemeld - Gemeld
Referentie Leverancier
Status Effectief 23-05-2012 18:52:52
Nieuwe Status Effectief
Unit StadAk.1 - Bouwunit 1 project Stad
Geplande Start Realisatie
Gepland (uren) Uren
Deadline
Prognose te gaan (uren) Uren
Volgende Review
Vaste Prijs
Resterende Inspanning Bepaald op
Vaste Prijs Gewogen
Voortgang (%)
Voortgang Uiteindelijk (%) 10
Documenten 2 (409 Kb) DSC02184.JPG JAPAY NOV 07.pdf

you will get a list of all linked documents by selecting ‘None, click here to add a document’ or to select the number of documents. See Documents 102 for linking new documents and retrieving existing documents.

1.2.1.14 No Access

If you request a page which you have no access rights to, the following screen appears.


Invantive
Filter: Geen projectspecifiek filter
Terugreizen Naar:
Bestand
Beeld
Budgetbewaking
Managementinformatie
Administratie
Beheer
Help
Demo
Error
Organisatie Relatiesoorten
Hoofdscherm
Error
Taken Dashboard
Error
Magazijnen
Munteenheden
MIME Soorten
Geen Toegang
Ga naar het hoofdmenu
Afmelden
Terug naar vorige pagina

Geen Toegang

U heeft geen toegangsrechten voor deze pagina.

1.2.1.15 Further Processing of Data in Excel

The application offers four options to import data into Microsoft Excel:

- Direct copying of the screen output to Microsoft Excel.
- Web query within Microsoft Excel.
- Database query from Microsoft Excel.
- Run a report which output is a Microsoft Excel file

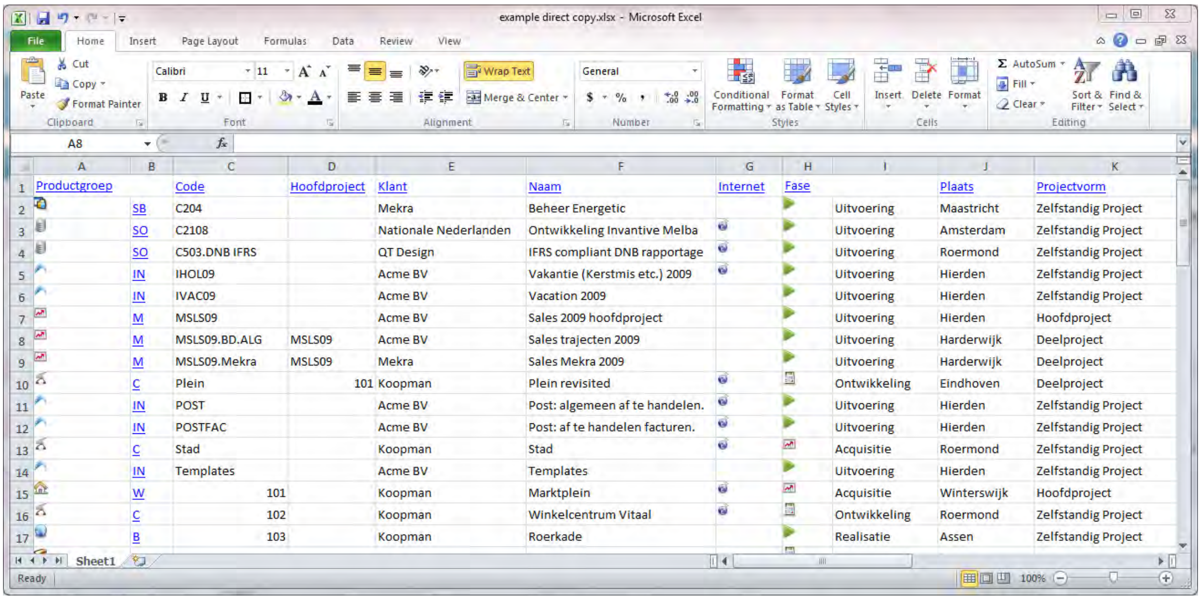
Direct copy

Direct copying of the screen output and export it to Microsoft Excel can be done as follows:

- Open the screen of your choice.

- Select the correct data.
- Select '1 .000 rows per page' in the search filter to maximize the results on one page.
- Click in the upper left corner of the search result and drag the mouse to the below right corner of the search results.
- Select 'Copy'.
- Switch to Microsoft Excel.
- Select 'Paste' or 'Paste Special'.

An example of the result is:


example direct copy.xlsx - Microsoft Excel
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Cut
Copy
Format Painter
Paste
Clipboard
Calibri
11
Font
Wrap Text
Merge & Center
Alignment
General
Number
Conditional Formatting
Format as Table
Cell Styles
Styles
Insert
Delete
Format
Cells
AutoSum
Fill
Clear
Sort & Filter
Find & Select
Editing
A8
Sheet1
Ready
100%

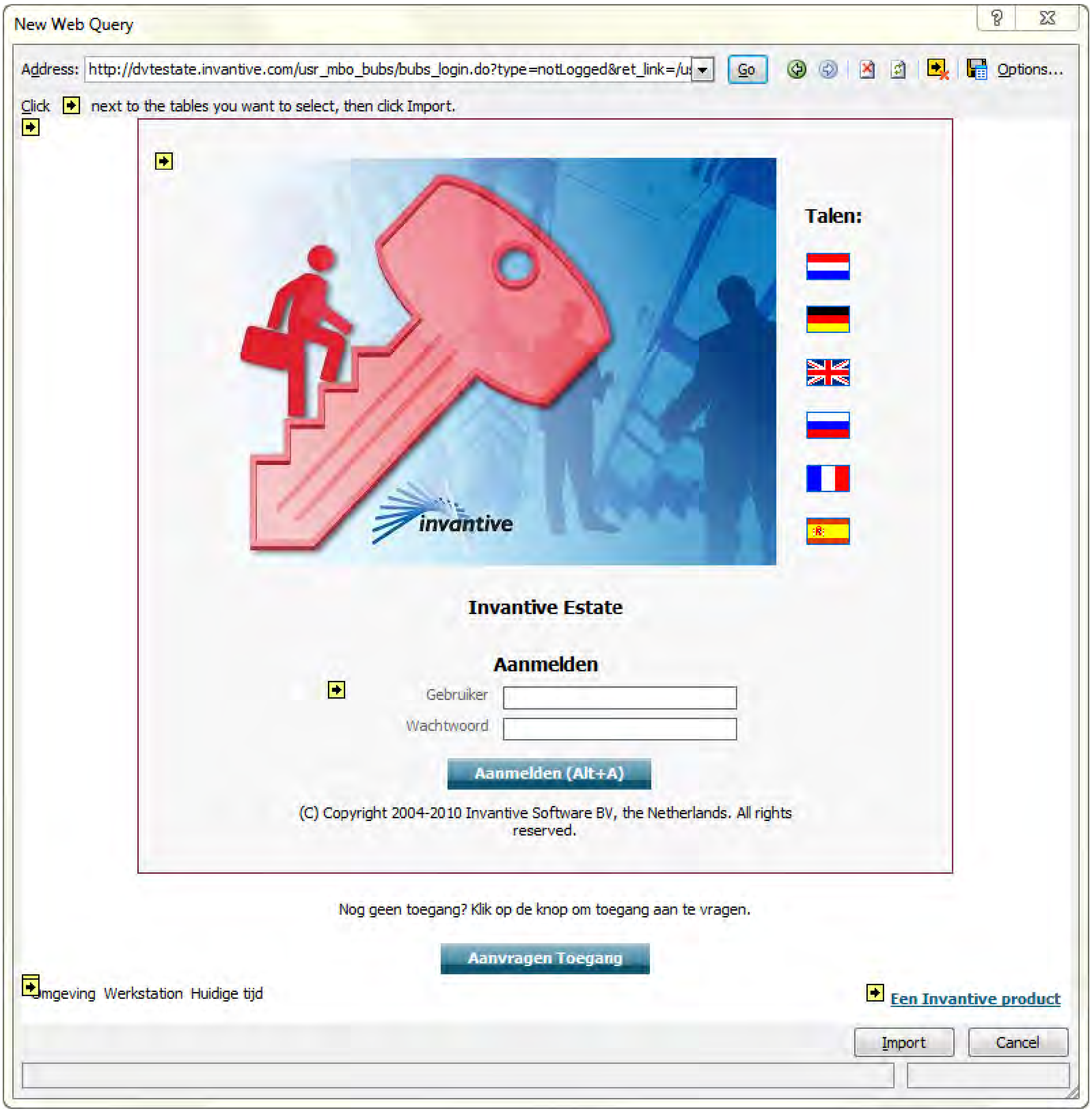
	A	B	C	D	E	F	G	H	I	J	K
1	Productgroep		Code	Hoofdproject	Klant	Naam	Internet	Fase		Plaats	Projectvorm
2		SB	C204		Mekra	Beheer Energetic			Uitvoering	Maastricht	Zelfstandig Project
3		SO	C2108		Nationale Nederlanden	Ontwikkeling Invantive Melba			Uitvoering	Amsterdam	Zelfstandig Project
4		SO	C503.DNB IFRS		QT Design	IFRS compliant DNB rapportage			Uitvoering	Roermond	Zelfstandig Project
5		IN	IHOL09		Acme BV	Vakantie (Kerstmis etc.) 2009			Uitvoering	Hierden	Zelfstandig Project
6		IN	IVAC09		Acme BV	Vacation 2009			Uitvoering	Hierden	Zelfstandig Project
7		M	MSLS09		Acme BV	Sales 2009 hoofdproject			Uitvoering	Hierden	Hoofdproject
8		M	MSLS09.BD.ALG	MSLS09	Acme BV	Sales trajecten 2009			Uitvoering	Harderwijk	Deelproject
9		M	MSLS09.Mekra	MSLS09	Mekra	Sales Mekra 2009			Uitvoering	Harderwijk	Deelproject
10		C	Plein	101	Koopman	Plein revisited			Ontwikkeling	Eindhoven	Deelproject
11		IN	POST		Acme BV	Post: algemeen af te handelen.			Uitvoering	Hierden	Zelfstandig Project
12		IN	POSTFAC		Acme BV	Post: af te handelen facturen.			Uitvoering	Hierden	Zelfstandig Project
13		C	Stad		Koopman	Stad			Acquisitie	Roermond	Zelfstandig Project
14		IN	Templates		Acme BV	Templates			Uitvoering	Hierden	Zelfstandig Project
15		W	101		Koopman	Marktplein			Acquisitie	Winterswijk	Hoofdproject
16		C	102		Koopman	Winkelcentrum Vitaal			Ontwikkeling	Roermond	Zelfstandig Project
17		B	103		Koopman	Roerkade			Realisatie	Assen	Zelfstandig Project

Comment: copying directly doesn't work with Mozilla Firefox anymore, it does work with the browsers Microsoft Explorer, Opera, and Chrome.

Web Query

Making a web query from Microsoft Excel can be done following the next steps:

- Start Microsoft Excel.
- Open a sheet.
- Place the cursor where the data has to appear.
- Select in the menu 'Data' -> 'Retrieve external data' -> 'New web query'.
- Fill out the URL of the application.
- Log in.


New Web Query
Address:
Go
Options...
Talen:
invantive
Gebruiker
Wachtwoord
Aanmelden (Alt+A)
Aanvragen Toegang
Omgeving Werkstation Huidige tijd
Een Invantive product
Import
Cancel

Address: http://dvtestate.invantive.com/usr_mbo_bubs/bubs_login.do?type=notLogged&ret_link=/u

Click next to the tables you want to select, then click Import.

Invantive Estate

Aanmelden

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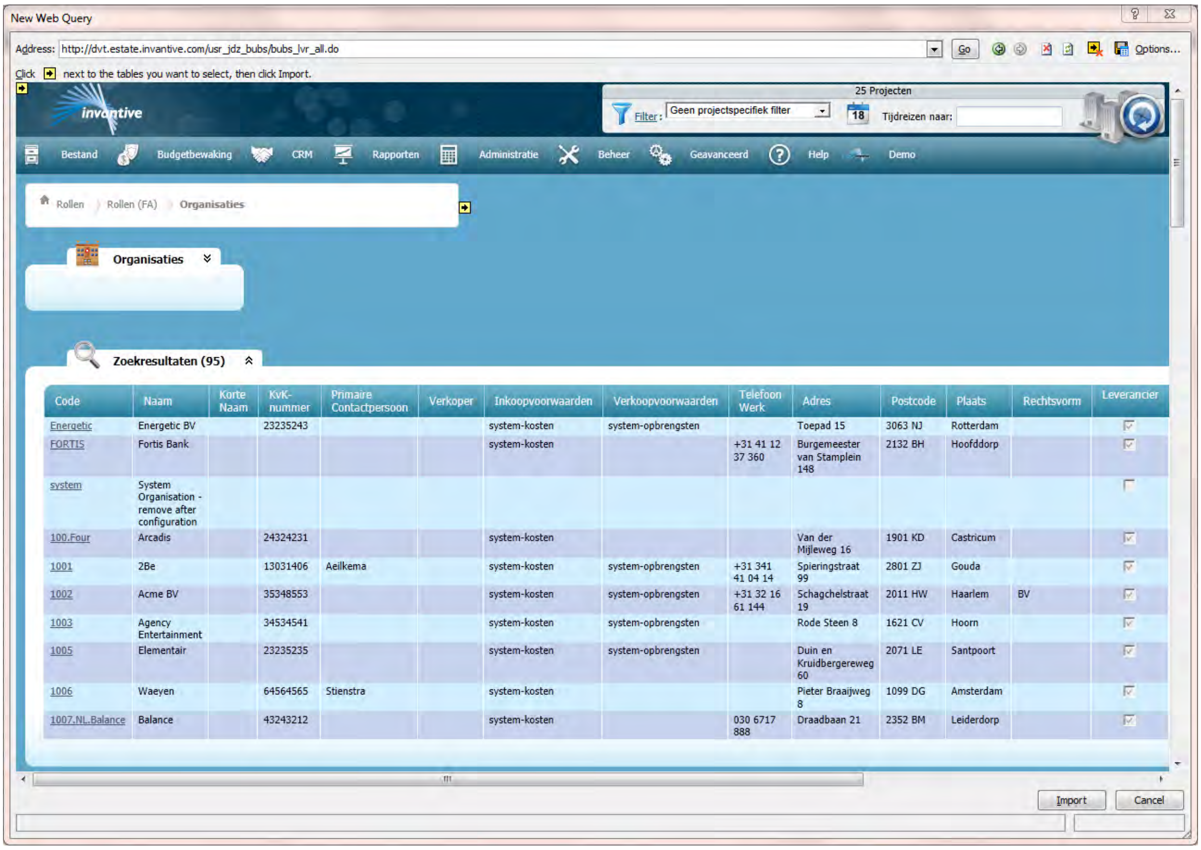
Nog geen toegang? Klik op de knop om toegang aan te vragen.

- Open the screen where you would like to copy data from.
- Select ‘1 .000 rows per page’ in the search filter to maximize the results on one page.
- Select the correct data.
- Select the arrow in the upper left corner, next to the search results. The arrow changes in a check mark.



Address: http://dvt.estate.invantive.com/usr_jdz_bubs/bubs_lvr_all.do

Click next to the tables you want to select, then click Import.

Filter: Geen projectspecifiek filter

Tijdreizen naar:

Code	Naam	Korte Naam	KvK-nummer	Primaire Contactpersoon	Verkoper	Inkoopvoorwaarden	Verkoopvoorwaarden	Telefoon Werk	Adres	Postcode	Plaats	Rechtsvorm	Leverancier
Energetic	Energetic BV		23235243			system-kosten	system-opbrengsten		Toepad 15	3063 NJ	Rotterdam		☑
FORTIS	Fortis Bank					system-kosten		+31 41 12 37 360	Burgemeester van Stamplein 148	2132 BH	Hoofddorp		☑
system	System Organisation - remove after configuration												☐
100.Four	Arcadis		24324231			system-kosten			Van der Mijleweg 16	1901 KD	Castricum		☑
1001	2Be		13031406	Aeilkema		system-kosten	system-opbrengsten	+31 341 41 04 14	Spieringstraat 99	2801 ZJ	Gouda		☑
1002	Acme BV		35348553			system-kosten	system-opbrengsten	+31 32 16 61 144	Schagchelstraat 19	2011 HW	Haarlem	BV	☑
1003	Agency Entertainment		34534541			system-kosten	system-opbrengsten		Rode Steen 8	1621 CV	Hoorn		☑
1005	Elementair		23235235			system-kosten	system-opbrengsten		Duin en Kruidbergereweg 60	2071 LE	Santpoort		☑
1006	Waeyen		64564565	Stienstra		system-kosten			Pieter Braaijweg 8	1099 DG	Amsterdam		☑
1007.NL.Balance	Balance		43243212			system-kosten		030 6717 888	Draadbaan 21	2352 BM	Leiderdorp		☑

- Select the Import button.

Database Query

A database query from Excel can be made using a database gateway. For more information see Allow Users to Exchange Data 467.

Reports

All reports are available in Microsoft Excel format. Choose your report by choosing the corresponding menu option. The layout of a report in Microsoft Excel format is of less quality than the layout of the Adobe PDF format but this is compensated for the analytical and processing possibilities of data in MS Excel.

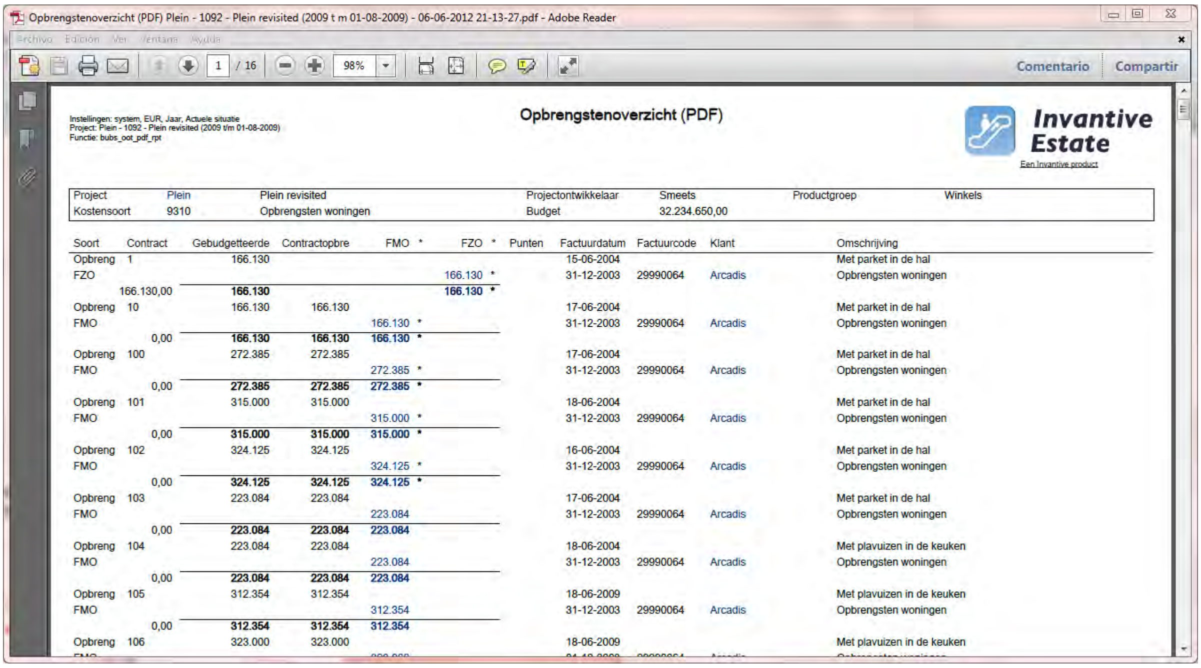
1.2.1.16 Drill down in Adobe PDF

All reports are available in Adobe PDF format. The Adobe PDF format is a true reflection of the print in digital format. Reports in Adobe PDF format can be viewed with the program ‘Adobe Reader’ or ‘Adobe Acrobat’. The program ‘Adobe Reader’ is free available on the Adobe Website.

The Adobe PDF reports can be digitally stored and sent. Within a number of reports a part of the text and/or numbers are colored blue. When you click on such a blue element, Invantive Estate will be opened and the related data will be shown, if you have the appropriate rights.

In this way, the labor intensive search for data to be edited will be more efficient.

For example, in the report 'Revenue Overview' all information in the columns 'FMO - Invoice With Order', 'FZO - Invoice Without Contract' and 'Customer' are colored blue:


Opbrengstenoverzicht (PDF) Plein - 1092 - Plein revisited (2009 t m 01-08-2009) - 06-06-2012 21-13-27.pdf - Adobe Reader
Archivo Edición Ver Ventana Ayuda
1 / 16
98%
Comentario
Compartir
Invantive Estate
Een Invantive product

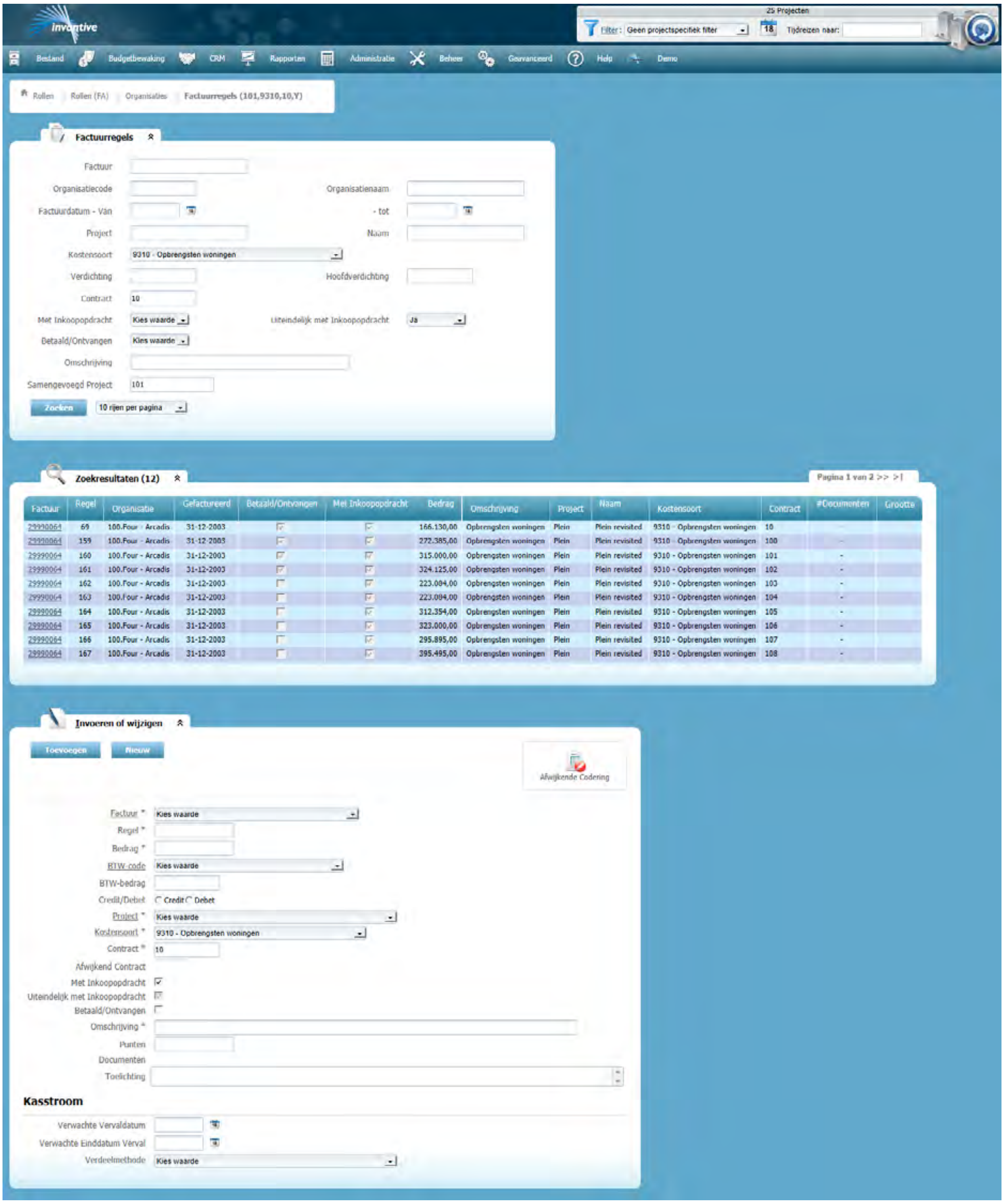
Opbrengstenoverzicht (PDF)

Instellingen: system, EUR, Jaar, Actuele situatie
Project: Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)
Functie: bubs_oot_pdf_rpt

Project	Plein	Plein revisited	Projectontwikkelaar	Smeets	Productgroep	Winkels
Kostensoort	9310	Opbrengsten woningen	Budget	32.234.650,00		

Soort	Contract	Gebudgetteerde	Contractopbre	FMO *	FZO *	Punten	Factuurdatum	Factuurcode	Klant	Omschrijving
Opbreng	1	166.130					15-06-2004			Met parket in de hal
FZO					166.130 *		31-12-2003	29990064	Arcadis	Opbrengsten woningen
	166.130,00	**166.130**			**166.130** *					
Opbreng	10	166.130	166.130				17-06-2004			Met parket in de hal
FMO				166.130 *			31-12-2003	29990064	Arcadis	Opbrengsten woningen
	0,00	**166.130**	**166.130**	**166.130** *						
Opbreng	100	272.385	272.385				17-06-2004			Met parket in de hal
FMO				272.385 *			31-12-2003	29990064	Arcadis	Opbrengsten woningen
	0,00	**272.385**	**272.385**	**272.385** *						
Opbreng	101	315.000	315.000				18-06-2004			Met parket in de hal
FMO				315.000 *			31-12-2003	29990064	Arcadis	Opbrengsten woningen
	0,00	**315.000**	**315.000**	**315.000** *						
Opbreng	102	324.125	324.125				16-06-2004			Met parket in de hal
FMO				324.125 *			31-12-2003	29990064	Arcadis	Opbrengsten woningen
	0,00	**324.125**	**324.125**	**324.125** *						
Opbreng	103	223.084	223.084				17-06-2004			Met parket in de hal
FMO				223.084			31-12-2003	29990064	Arcadis	Opbrengsten woningen
	0,00	**223.084**	**223.084**	**223.084**						
Opbreng	104	223.084	223.084				18-06-2004			Met plavuizen in de keuken
FMO				223.084			31-12-2003	29990064	Arcadis	Opbrengsten woningen
	0,00	**223.084**	**223.084**	**223.084**						
Opbreng	105	312.354	312.354				18-06-2009			Met plavuizen in de keuken
FMO				312.354			31-12-2003	29990064	Arcadis	Opbrengsten woningen
	0,00	**312.354**	**312.354**	**312.354**						
Opbreng	106	323.000	323.000				18-06-2009			Met plavuizen in de keuken

When you click on a blue colored number in the column ‘FMO’, the following screen will appear (possible after a separate authentication if Invantive Estate is not opened yet):


invantive
25 Projecten
Filter: Geen projectspecifiek filter
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Rollen
Rollen (FA)
Organisaties
Factuurregels (101,9310,10,Y)
Factuurregels
Zoeken
Zoekresultaten (12)
Pagina 1 van 2 >> >|
Invoeren of wijzigen
Toevoegen
Nieuw
Afwijkende Codering
Kasstroom

Kostensoort: 9310 - Opbrengsten woningen
Contract: 10
Met Inkoopopdracht: Kies waarde
Uiteindelijk met Inkoopopdracht: Ja
Betaald/Ontvangen: Kies waarde
Samengevoegd Project: 101
10 rijen per pagina

Factuur	Regel	Organisatie	Gefactureerd	Betaald/Ontvangen	Met Inkoopopdracht	Bedrag	Omschrijving	Project	Naam	Kostensoort	Contract	#Documenten	Grootte
29990064	69	100.Four - Arcadis	31-12-2003	☑	☑	166.130,00	Opbrengsten woningen	Plein	Plein revisited	9310 - Opbrengsten woningen	10	-	
29990064	159	100.Four - Arcadis	31-12-2003	☑	☑	272.385,00	Opbrengsten woningen	Plein	Plein revisited	9310 - Opbrengsten woningen	100	-	
29990064	160	100.Four - Arcadis	31-12-2003	☑	☑	315.000,00	Opbrengsten woningen	Plein	Plein revisited	9310 - Opbrengsten woningen	101	-	
29990064	161	100.Four - Arcadis	31-12-2003	☑	☑	324.125,00	Opbrengsten woningen	Plein	Plein revisited	9310 - Opbrengsten woningen	102	-	
29990064	162	100.Four - Arcadis	31-12-2003	☐	☑	223.084,00	Opbrengsten woningen	Plein	Plein revisited	9310 - Opbrengsten woningen	103	-	
29990064	163	100.Four - Arcadis	31-12-2003	☐	☑	223.084,00	Opbrengsten woningen	Plein	Plein revisited	9310 - Opbrengsten woningen	104	-	
29990064	164	100.Four - Arcadis	31-12-2003	☐	☑	312.354,00	Opbrengsten woningen	Plein	Plein revisited	9310 - Opbrengsten woningen	105	-	
29990064	165	100.Four - Arcadis	31-12-2003	☐	☑	323.000,00	Opbrengsten woningen	Plein	Plein revisited	9310 - Opbrengsten woningen	106	-	
29990064	166	100.Four - Arcadis	31-12-2003	☐	☑	295.895,00	Opbrengsten woningen	Plein	Plein revisited	9310 - Opbrengsten woningen	107	-	
29990064	167	100.Four - Arcadis	31-12-2003	☐	☑	395.495,00	Opbrengsten woningen	Plein	Plein revisited	9310 - Opbrengsten woningen	108	-	

Factuur *: Kies waarde
BTW-code: Kies waarde
Credit/Debet: ○ Credit ○ Debet
Project *: Kies waarde
Kostensoort *: 9310 - Opbrengsten woningen
Contract *: 10
Met Inkoopopdracht: ☑
Uiteindelijk met Inkoopopdracht: ☑
Betaald/Ontvangen: ☐
Verdeelmethode: Kies waarde

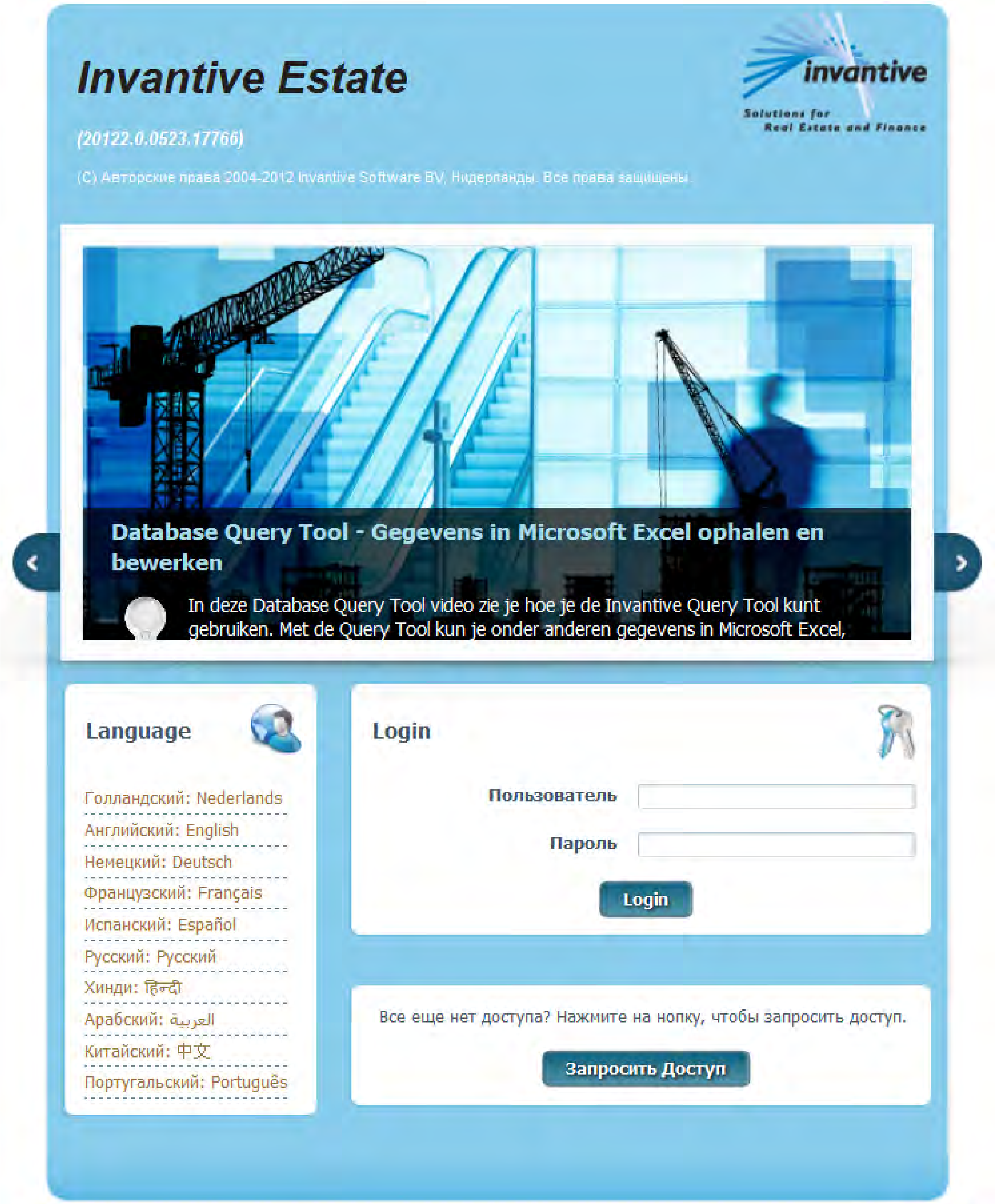
Now you can select an invoice in ‘Search Results’ and correct it.

1.2.1.17 Multilinguality

Invantive Estate is available in multiple languages. Through the list of languages at the bottom left in the login screen you can select the language you prefer. Once you have selected the language of your choice, the text in the login screen and other screens of Invantive Estate appears in the selected language.

It is also possible to use the URL (the address in the browser) to set the language. This may be required, for example, to have the login screen also in another language available. For a different language, the URL needs to be extended with ‘locale=<AREA>&lang=<LANGUAGE>’. The first parameter in a URL should be preceded by a

'?'. In all other cases an '&' must be placed before the extension. To have quick access to the modified link, you can save it, for example, in 'Favorites' in your browser. See the example below for a login screen in Russian.



Invantive Estate

(20122.0.0523.17766)

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Database Query Tool - Gegevens in Microsoft Excel ophalen en bewerken

In deze Database Query Tool video zie je hoe je de Invantive Query Tool kunt gebruiken. Met de Query Tool kun je onder anderen gegevens in Microsoft Excel,

Все еще нет доступа? Нажмите на нопку, чтобы запросить доступ.

invantive
Solutions for Real Estate and Finance
Language
Голландский: Nederlands
Английский: English
Немецкий: Deutsch
Французский: Français
Испанский: Español
Русский: Русский
Хинди: हिन्दी
Арабский: العربية
Китайский: 中文
Португальский: Português
Login
Пользователь
Пароль
Login
Запросить Доступ

With the screen My Preferences 41 it is also possible to set the preferred language.

The following territories and languages are supported:

- Dutch (region is 'nl', language is 'nl').

- English (region is ‘en’, language is ‘en’).
- German in Germany (region is ‘de’, language is ‘de’).
- French (region is ‘fr’, language is ‘fr’).
- Spanish (region is ‘es’, language is ‘es’).
- Russian (region is ‘ru’, language is ‘ru’).

Depending on the chosen language, all fixed texts in screens and reports are replaced by the correct translation. Fixed texts are, for example, field titles.

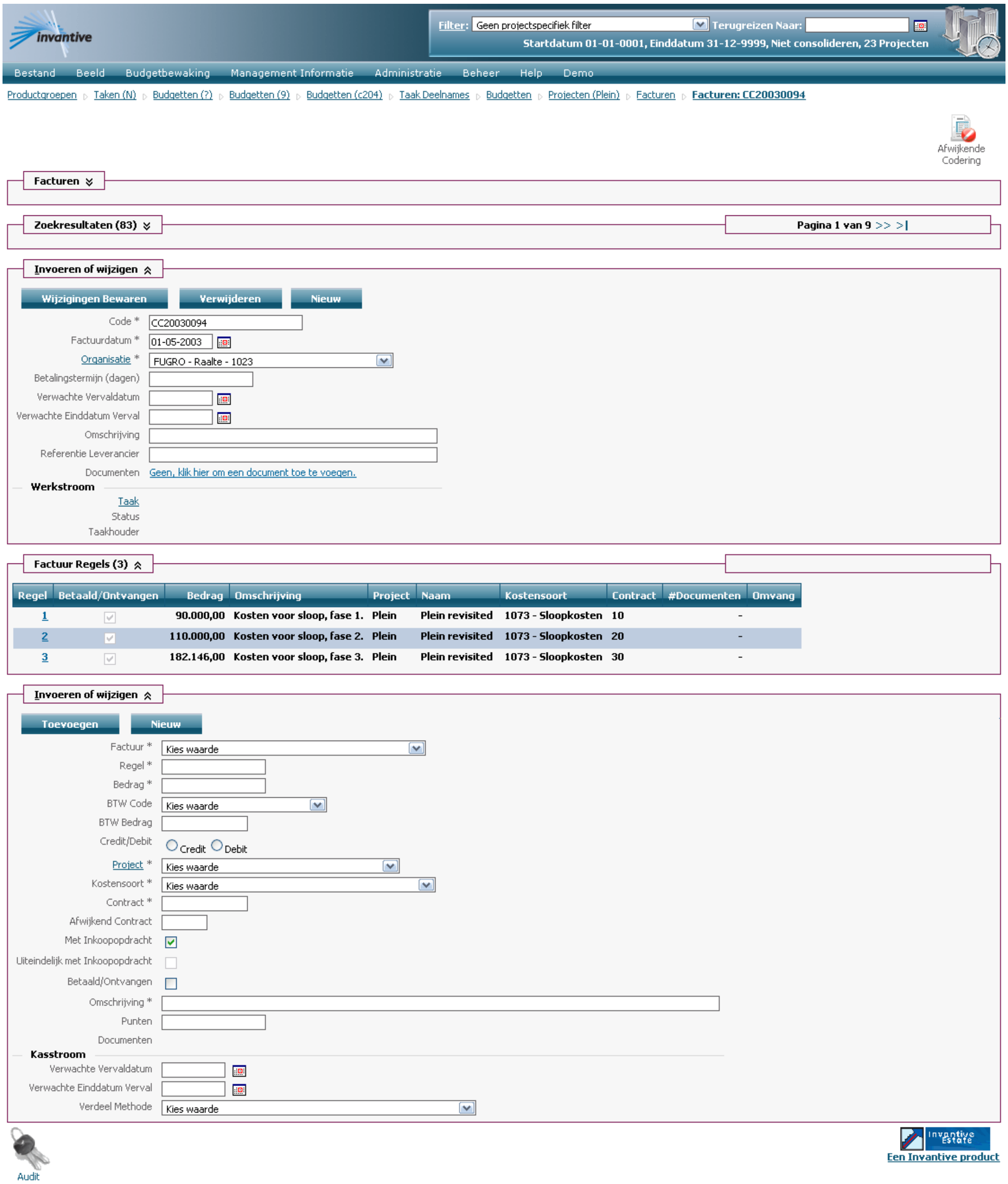
Limited parts of the variable texts are also replaced by the correct translation. This primarily concerns more or less static lists, such as the list of functions.

Entered data is not translated. For example, the name of a project is independent of the chosen language.

1.2.1.18 Master-Detailschermen

Some screens in Invantive Estate are master detail. This means that the ‘master’ object and its corresponding ‘details’ are displayed on the same page. The details that appear vary depending on the selected ‘master‘ object. A master-detail relation has a cardinality ‘one-to-many’.

The example below shows a ‘master detail’ screen. Three invoice lines belong to the invoice with code ‘CC0030094’.


invantive
Bestand
Beeld
Budgetbewaking
Management Informatie
Administratie
Beheer
Help
Demo
Productgroepen
Taken (N)
Budgetten (?)
Budgetten (9)
Budgetten (c204)
Taak Deelnames
Budgetten
Projecten (Plein)
Facturen
Facturen: CC20030094
Afwijkende Codering
Facturen
Zoekresultaten (83)
Pagina 1 van 9 >> >|
Invoeren of wijzigen
Wijzigingen Bewaren
Verwijderen
Nieuw
Factuur Regels (3)
Invoeren of wijzigen
Toevoegen
Nieuw
Audit
Invantive Estate
Een Invantive product

Filter: Geen projectspecifiek filter
Terugreizen Naar:
Startdatum 01-01-0001, Einddatum 31-12-9999, Niet consolideren, 23 Projecten

Code *	CC20030094
Factuurdatum *	01-05-2003
Organisatie *	FUGRO - Raalte - 1023
Betalingstermijn (dagen)	
Verwachte Vervaldatum	
Verwachte Einddatum Verval	
Omschrijving	
Referentie Leverancier	
Documenten	Geen, klik hier om een document toe te voegen.

Werkstroom

Taak
Status
Taakhouder

Regel	Betaald/Ontvangen	Bedrag	Omschrijving	Project	Naam	Kostensoort	Contract	#Documenten	Omvang
1	☑	90.000,00	Kosten voor sloop, fase 1.	Plein	Plein revisited	1073 - Sloopkosten	10	-	
2	☑	110.000,00	Kosten voor sloop, fase 2.	Plein	Plein revisited	1073 - Sloopkosten	20	-	
3	☑	182.146,00	Kosten voor sloop, fase 3.	Plein	Plein revisited	1073 - Sloopkosten	30	-	

Factuur *	Kies waarde
Regel *	
Bedrag *	
BTW Code	Kies waarde
BTW Bedrag	
Credit/Debit	○ Credit ○ Debit
Project *	Kies waarde
Kostensoort *	Kies waarde
Contract *	
Afwijkend Contract	
Met Inkoopopdracht	☑
Uiteindelijk met Inkoopopdracht	☐
Betaald/Ontvangen	☐
Omschrijving *	
Punten	
Documenten	

Kasstroom

Verwachte Vervaldatum	
Verwachte Einddatum Verval	
Verdeel Methode	Kies waarde

The display of the details in the next master detail screens is automatically set to show a maximum of 1000 records:

Process notes in the screen Processes 53.

Invoice Lines in the screen Invoices 135.

View elements in the screen Views 289.

Classifications in the screen Projects 124.

Job Parameters in the screen Background Jobs 220.

Classifications in the screen Documents 102.

Classifications and Relationships in the screen Organizations 93.

1.2.2 File

This section contains information about the functions which normally can be found under the menu item ‘File’.

1.2.2.1 View

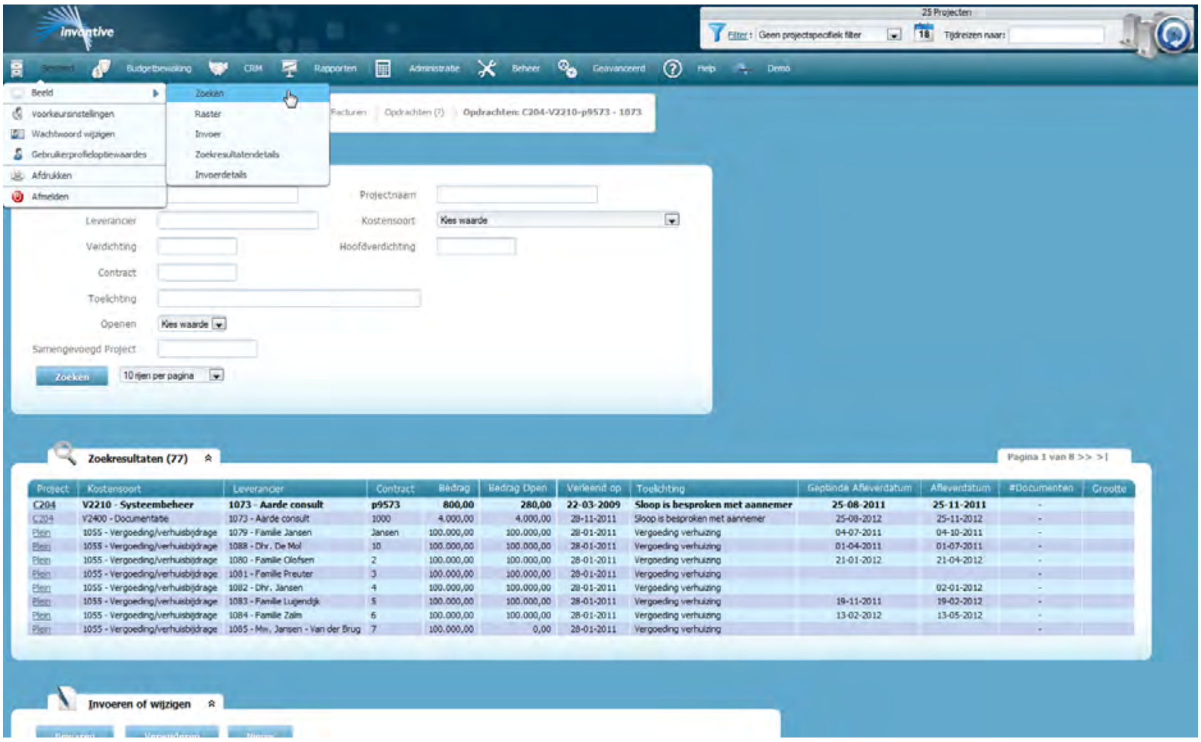
A screen in Invantive Estate has some fixed components (see openings screen 9) and some variable components. This chapter describes the menu options that allows you to hide and unhide the variable screen components.

From top to bottom the following items are respectively shown in a screen:

1. Search
2. Grid
3. Data entry
4. Grid Details
5. Data entry details

Search

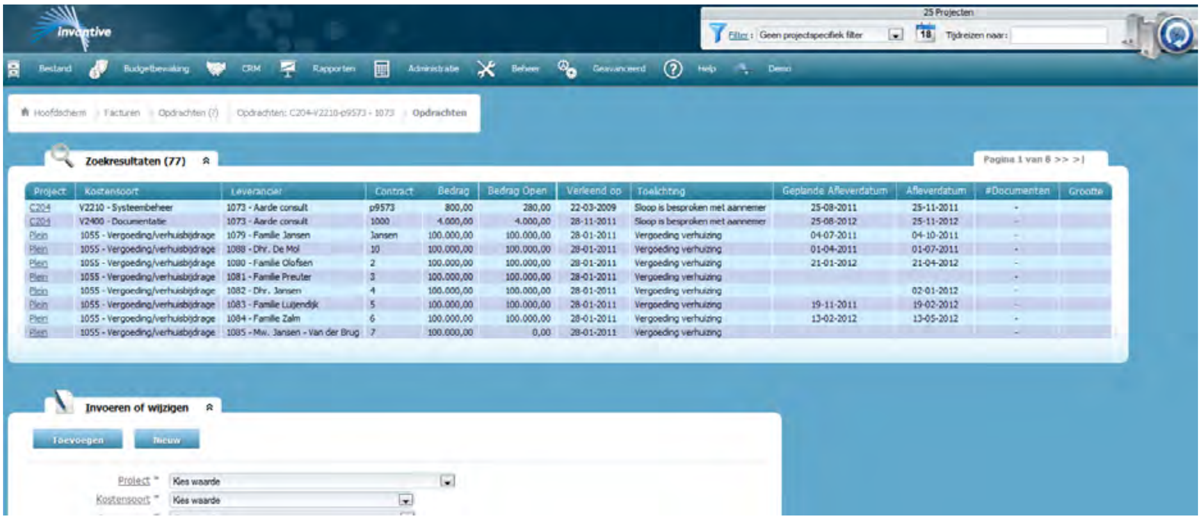
Using the menu option 'View' you can select whether if you want a screen part to be shown in your screen. In this paragraph, is described how we can hide and show the screen part 'Searching'. Select the option ‘Search’.


Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Beeld
Voorkeursinstellingen
Wachtwoord wijzigen
Gebruikerprofieloptiewaardes
Afdrukken
Afmelden
Zoeken
Raster
Invoer
Zoekresultatendetails
Invoerdetails
Facturen
Opdrachten (7)
Opdrachten: C204-V2210-p9573 - 1073
Projectnaam
Leverancier
Verdichting
Hoofdverdichting
Contract
Toelichting
Samengevoegd Project
Zoeken
Zoekresultaten (77)
Pagina 1 van 8 >> >|
Invoeren of wijzigen

Kostensoort: Kies waarde
Openen: Kies waarde
10 rijen per pagina

Project	Kostensoort	Leverancier	Contract	Bedrag	Bedrag Open	Verleend op	Toelichting	Geplande Afleverdatum	Afleverdatum	#Documenten	Grootte
C204	**V2210 - Systeembeheer**	**1073 - Aarde consult**	**p9573**	**800,00**	**280,00**	**22-03-2009**	**Sloop is besproken met aannemer**	**25-08-2011**	**25-11-2011**	-	
C204	V2400 - Documentatie	1073 - Aarde consult	1000	4.000,00	4.000,00	28-11-2011	Sloop is besproken met aannemer	25-08-2012	25-11-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1079 - Familie Jansen	Jansen	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	04-07-2011	04-10-2011	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1088 - Dhr. De Mol	10	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	01-04-2011	01-07-2011	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1080 - Familie Olofsen	2	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	21-01-2012	21-04-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1081 - Familie Preuter	3	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing			-	
Plein	1055 - Vergoeding/verhuisbijdrage	1082 - Dhr. Jansen	4	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing		02-01-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1083 - Familie Luijendijk	5	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	19-11-2011	19-02-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1084 - Familie Zalm	6	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	13-02-2012	13-05-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1085 - Mw. Jansen - Van der Brug	7	100.000,00	0,00	28-01-2011	Vergoeding verhuizing			-	

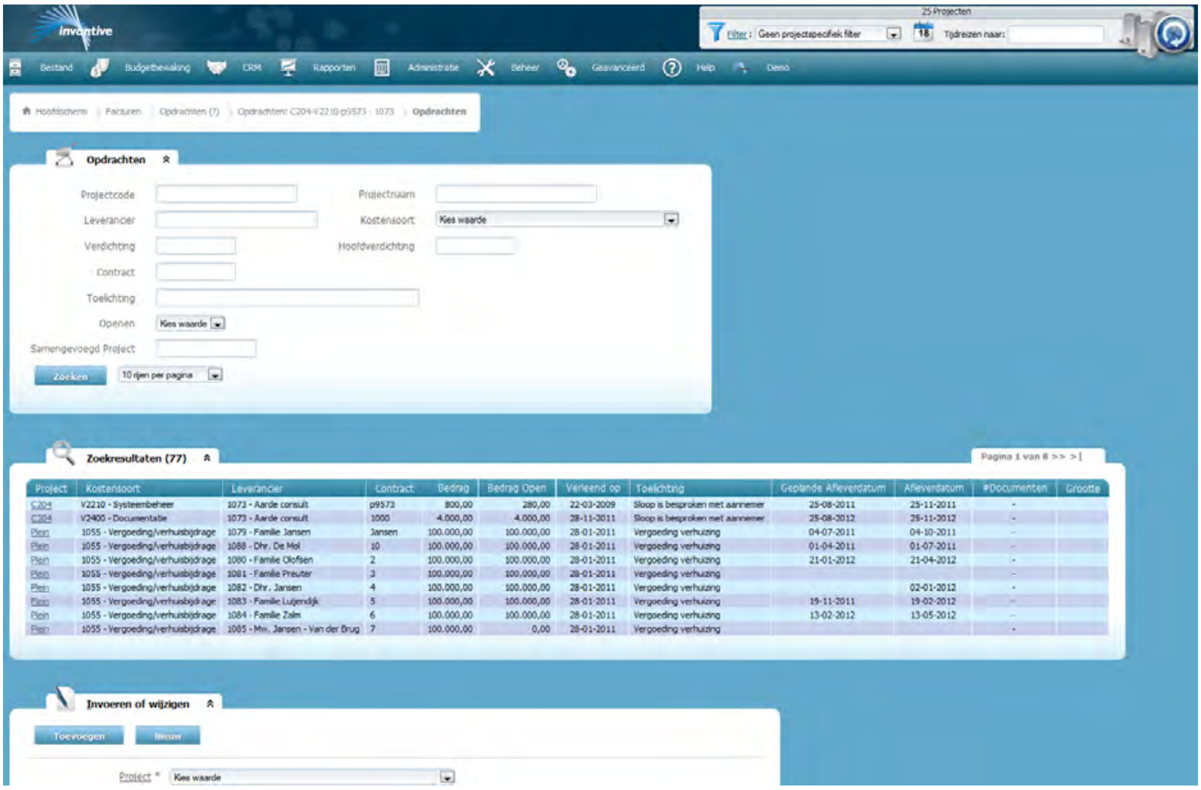
The following screen appears. The screen section ‘Search’ is not longer visible in the screen.


invantive
25 Projecten
Filter: Geen projectspecifiek filter
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Hoofdscherm
Facturen
Opdrachten (7)
Opdrachten: C204-V2210-p9573 - 1073
Opdrachten
Zoekresultaten (77)
Pagina 1 van 8 >> >|
Invoeren of wijzigen
Toevoegen
Nieuw

Project	Kostensoort	Leverancier	Contract	Bedrag	Bedrag Open	Verleend op	Toelichting	Geplande Afleverdatum	Afleverdatum	#Documenten	Grootte
C204	V2210 - Systeembeheer	1073 - Aarde consult	p9573	800,00	280,00	22-03-2009	Sloop is besproken met aannemer	25-08-2011	25-11-2011	-	
C204	V2400 - Documentatie	1073 - Aarde consult	1000	4.000,00	4.000,00	28-11-2011	Sloop is besproken met aannemer	25-08-2012	25-11-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1079 - Familie Jansen	Jansen	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	04-07-2011	04-10-2011	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1088 - Dhr. De Mol	10	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	01-04-2011	01-07-2011	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1080 - Familie Olofsen	2	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	21-01-2012	21-04-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1081 - Familie Preuter	3	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing			-	
Plein	1055 - Vergoeding/verhuisbijdrage	1082 - Dhr. Jansen	4	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing		02-01-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1083 - Familie Luijendijk	5	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	19-11-2011	19-02-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1084 - Familie Zalm	6	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	13-02-2012	13-05-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1085 - Mw. Jansen - Van der Brug	7	100.000,00	0,00	28-01-2011	Vergoeding verhuizing			-	

Project * Kies waarde
Kostensoort * Kies waarde

Select again the menu option 'Searching'. The screen section ‘Search’ is now visible again.


invantive
25 Projecten
Filter: Geen projectspecifiek filter
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Hoofdscherm
Facturen
Opdrachten (7)
Opdrachten: C204-V2210-p9573 - 1073
Opdrachten
Zoeken
Zoekresultaten (77)
Pagina 1 van 8 >> >|
Invoeren of wijzigen
Toevoegen
Nieuw

Opdrachten

Projectcode
Projectnaam
Leverancier
Kostensoort Kies waarde
Verdichting
Hoofdverdichting
Contract
Toelichting
Openen Kies waarde
Samengevoegd Project
10 rijen per pagina

Project	Kostensoort	Leverancier	Contract	Bedrag	Bedrag Open	Verleend op	Toelichting	Geplande Afleverdatum	Afleverdatum	#Documenten	Grootte
C204	V2210 - Systeembeheer	1073 - Aarde consult	p9573	800,00	280,00	22-03-2009	Sloop is besproken met aannemer	25-08-2011	25-11-2011	-	
C204	V2400 - Documentatie	1073 - Aarde consult	1000	4.000,00	4.000,00	28-11-2011	Sloop is besproken met aannemer	25-08-2012	25-11-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1079 - Familie Jansen	Jansen	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	04-07-2011	04-10-2011	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1088 - Dhr. De Mol	10	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	01-04-2011	01-07-2011	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1080 - Familie Olofsen	2	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	21-01-2012	21-04-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1081 - Familie Preuter	3	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing			-	
Plein	1055 - Vergoeding/verhuisbijdrage	1082 - Dhr. Jansen	4	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing		02-01-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1083 - Familie Luijendijk	5	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	19-11-2011	19-02-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1084 - Familie Zalm	6	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	13-02-2012	13-05-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1085 - Mw. Jansen - Van der Brug	7	100.000,00	0,00	28-01-2011	Vergoeding verhuizing			-	

Project * Kies waarde

Grid

Using the menu option 'View' and afterwards the option 'Grid' you can select whether you want to show or hide the screen part 'Search Results'. This works in the same way as described in paragraph Searching 39.

Data Entry

Using the menu option 'View' and afterwards the option 'Entry' you can select wheter you want the screen part 'Entry or change' to be shown or hidden. This works in the same way as described in paragraph Searching 39.

Grid Details

Using the menu option 'View' and afterwards the option 'Search Result Details' you can select whether you want the screen part 'Search Results' in the deatail part of the master detail screen to be shown or hidden. This works in the same way as described in paragraph Searching 39.

Data Entry Details

Using the menu option 'View' and afterwards the option 'Data Entry Details' you can select whether you want the screen part 'Entry or change' in the detailed part of a master detail screen to be shown or hidden. This work in the same way as described in paragraph Searching 39. 'Data Entry Details'.

1.2.2.2 Preferences

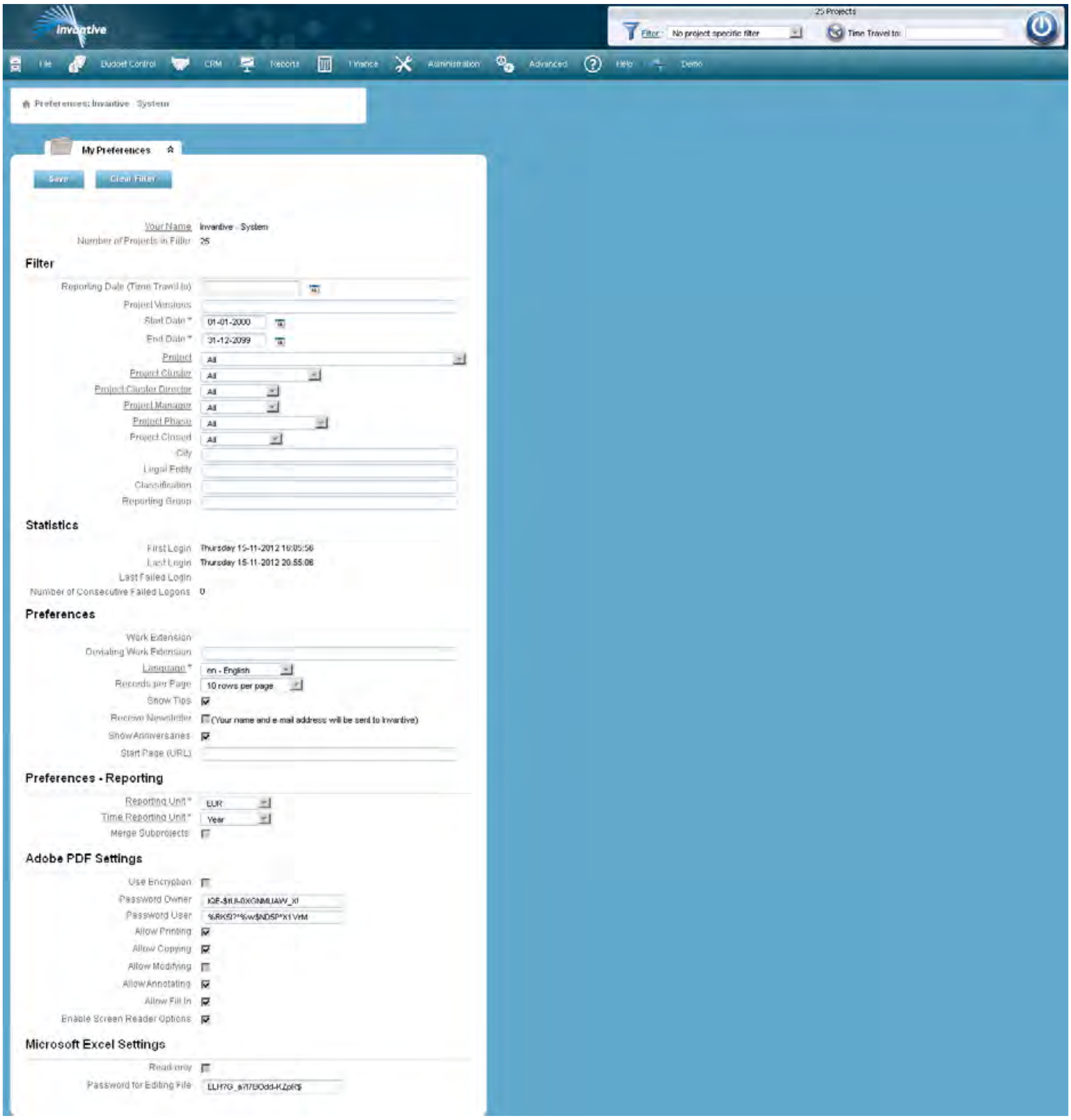
The settings in this screen is made, apply only to the user who is logged on.

Filter setting

Every user of Invantive Estate has access to some of the projects or even to all projects. However, you usually work with only one part of the projects or just one project. The filter helps you in all reports and screens to see and edit only the project data that are relevant to you.

The section ‘Filter’ in the screen ‘Preference Settings’ consists of a list of restrictions which are combined to form a list of projects that comply with these restrictions.

You can quickly change the filter without changing screens. See Filter 12.



Your Name: Invantive - System
Number of Projects in Filter: 25

Filter

Reporting Date (Time Travel to):
Project Versions:
Start Date *: 01-01-2000
End Date *: 31-12-2099
Project: All
Project Cluster: All
Project Cluster Director: All
Project Manager: All
Project Phase: All
Project Closed: All
City:
Legal Entity:
Classification:
Reporting Group:

Statistics

First Login: Thursday 15-11-2012 16:05:56
Last Login: Thursday 15-11-2012 20.55.06
Last Failed Login:
Number of Consecutive Failed Logons: 0

Preferences

Work Extension:
Deviating Work Extension:
Language *: en - English
Records per Page: 10 rows per page
Show Tips: ☑
Receive Newsletter: ☐ (Your name and e-mail address will be sent to Invantive)
Show Anniversaries: ☑
Start Page (URL):

Preferences - Reporting

Reporting Unit *: EUR
Time Reporting Unit *: Year
Merge Subprojects: ☐

Adobe PDF Settings

Use Encryption: ☐
Password Owner: IQE-$tU-0XGNMUAW_XI
Password User: %RK5I?*%w$NDSP*X1VrM
Allow Printing: ☑
Allow Copying: ☑
Allow Modifying: ☐
Allow Annotating: ☑
Allow Fill In: ☑
Enable Screen Reader Options: ☑

Microsoft Excel Settings

Read only: ☐
Password for Editing File: ELH7G_a7I7BOdd-KZpR$

The meaning of the entry fields is:

Filter	
Reporting Date (Travel Back To)	Here you can enter the reporting date for which the information on the reports should be shown. Time travelling to before the year 1900 is not supported.
Project Versions	Show project version in rapport data.
Start Date	The start of the reporting data range. All data before this date are not reported.
End Date	The end of the reporting date range. All data after this date are not reported. The end date is not included in reporting.
Project	Limit the filter to a specific project.
Product group	Limit the filter to all projects from the product group.
Product Group Director	Limit the filter to all projects with the product group director.
Project developer	Limit the filter to all projects of the project developer.
Project Phase	Limit the filter to all projects in this phase.
Project Closed	Limit the filter to all projects that have been closed or not.
City	Limit the filter to all projects where the name of the city where they are executed contains this text.
Legal Entity	Limit the filter to all projects where the name of the legal structure under which they are

	executed contains this text.
Classification	Limit the filter to all projects with the classification that appears in this field. A classification is a label that can be linked to a project or a person. With these labels you can find the desired information more easily.
Reporting group	Limit the filter to all projects where the reporting group contains this text.
Statistics	
Preferences	
Work Extension	The phone number to reach the user at work.
Deviating Work Extension	Alternate phone number to reach the user at work. This number is used for flexplaces and integration with the PBX.
Language	The preferred language in which the fixed texts are presented. See also Multilinguality 35.
Records per Page	The number of rows that is shown in Search Results 17.
Show Tips	When checked, after you log on, tips for using Invantive Estate will be shown.
Receive Newsletter	When checked, the user receives the newsletter of Invantive Software BV. A message to Invantive Software Inc. will be send with the request to subscribe you to the newsletter. There are no charges. Besides your email address also your name will be passed on.
Show Anniversaries	When checked, after you log on, the near birthdays are shown.
Start Page (URL)	The URL that will be opened after you have logged on. The URL will be requested with the parameter MNU_CODE = Main. If the field is empty, the URL in the field 'Main Menu (URL)' in the screen Settings 336 will be used.
Preferences - Reporting	
Reporting Unit	The numerical unit used in the presentation of figures in reports.
Time Reporting Unit	The time unit used in the presentation of figures in reports reporting time periods.
Merge Subprojects	If this box is checked, then projects are consolidated into master projects and independent projects in all financial reports. See also Management Information 110.
Adobe PDF Settings	
Use Encryption	If this box is checked, all PDF reports will be secured with two passwords: one password for the owner, who has full rights and another password for the person who gets limited rights as will be registered with the other check boxes.
Password Owner	The password for all PDF reports with which one is granted full rights for the PDF.
Password User	The password for all PDF reports with which one is granted limited rights, as registered by the following options.
Allow Printing	If this box is checked, then an authorized user can print the PDF file.
Allow Copying	If this box is checked, then an authorized user can copy text from the PDF file into a Microsoft Word file, for example.
Allow Modifying	If this box is checked, then an authorized user can change the PDF file by, for example, removing texts.
Allow Annotating	If this box is checked, then an authorized user of the PDF file can add annotations to it.
Allow Fill In	If this box is checked, then an authorized user of the PDF file can fill in the forms in the PDF file.
Enable Screen Reader Options	If this box is checked, then an authorized user can use a screen reader to read the PDF file. A screen reader is a tool for the visually impaired; it is recommended to always allow this option.
Microsoft Excel Settings	
Read-only	If this box is checked, then the authorized user, can only read the Excel file. However, no changes can be made.
Password for Editing File	The password for the Excel files can be changed here.

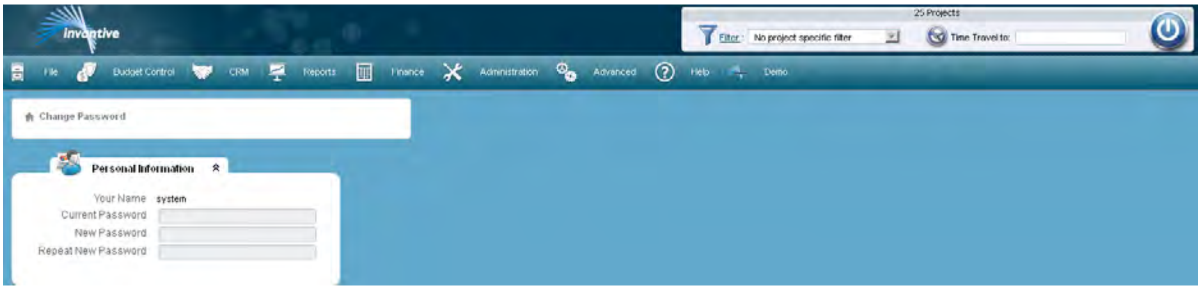
The meaning of the other fields:

Your Name	Your name as registered in the personal administration.
First Login	Date first time logged in via the web user interface.
Last Login	Date last time logged in via the web user interface.
Number of Projects in Filter	Indicates the number of projects that comply with the settings in the filter.

1.2.2.3 Change Password

In this form you can change your password.

First, you have to enter your current password to verify that you know this password and that not someone else is using your workstation during your absence. Then you have to enter your new password and next you have to confirm your password. The password will not be changed if the two passwords are different. This is to prevent that because of an input error you will lose your password.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Change Password
Personal Information
Current Password
New Password
Repeat New Password

Your Name: system

The meaning of the entry fields is:

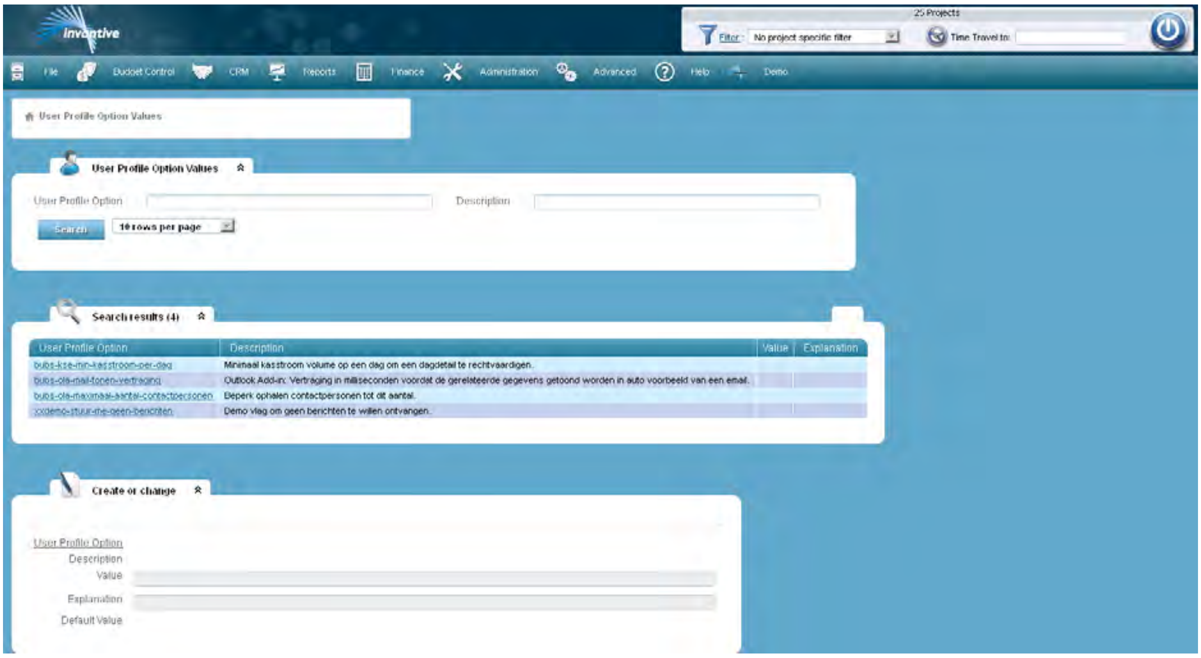
Your Name	Your name as recorded in the user administration.
Current Password	Your current password.
New Password	Your new password.
Repeat New Password	Repeat your new password, completely identical to the password you entered under 'New Password' .

1.2.2.4 User Profile Option Values

In this screen you can register or modify user profile option values.

User profile options are features that can be set per user. Fore example: the profile option 'Background color Invantive Estate' has the default color 'Gray'. The profile value of user A and user B is 'Purple'.

User Profile Option Values are closely related to Profile Option Values 254 and Profile Options 253.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
User Profile Option Values
User Profile Option Values
User Profile Option
Description
Search
10 rows per page
Search results (4)
Create or change
User Profile Option
Description
Value
Explanation
Default Value

User Profile Option	Description	Value	Explanation
bubs-kse-min-kasstroom-per-dag	Minimaal kasstroom volume op een dag om een dagdetail te rechtvaardigen.		
bubs-ola-mail-tonen-vertraging	Outlook Add-in: Vertraging in milliseconden voordat de gerelateerde gegevens getoond worden in auto voorbeeld van een email.		
bubs-ola-maximaal-aantal-contactpersonen	Beperk ophalen contactpersonen tot dit aantal.		
xxdemo-stuur-me-geen-berichten	Demo vlag om geen berichten te willen ontvangen.		

The meaning of the entry fields is:

Value	The profile option value that is assigned at user level to the profile option.
Explanation	Explanation of the assigned profile option value.

The meaning of the other fields:

Code	The code of the profile option.
Description	The description of the profile option.

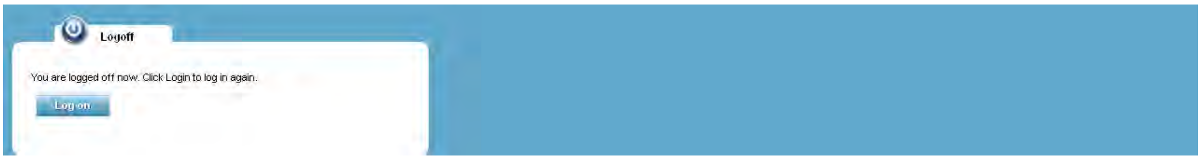
1.2.2.5 Print

Through this menu option the contents of the screen will be printed via the print-function of the browser.

1.2.2.6 Log Off

This screen is displayed when you log off you have via a menu option.

As soon as you are logged out, you can log in again, possibly under a different user name.



You are logged off now. Click Login to log in again.

1.2.3 Budget Control

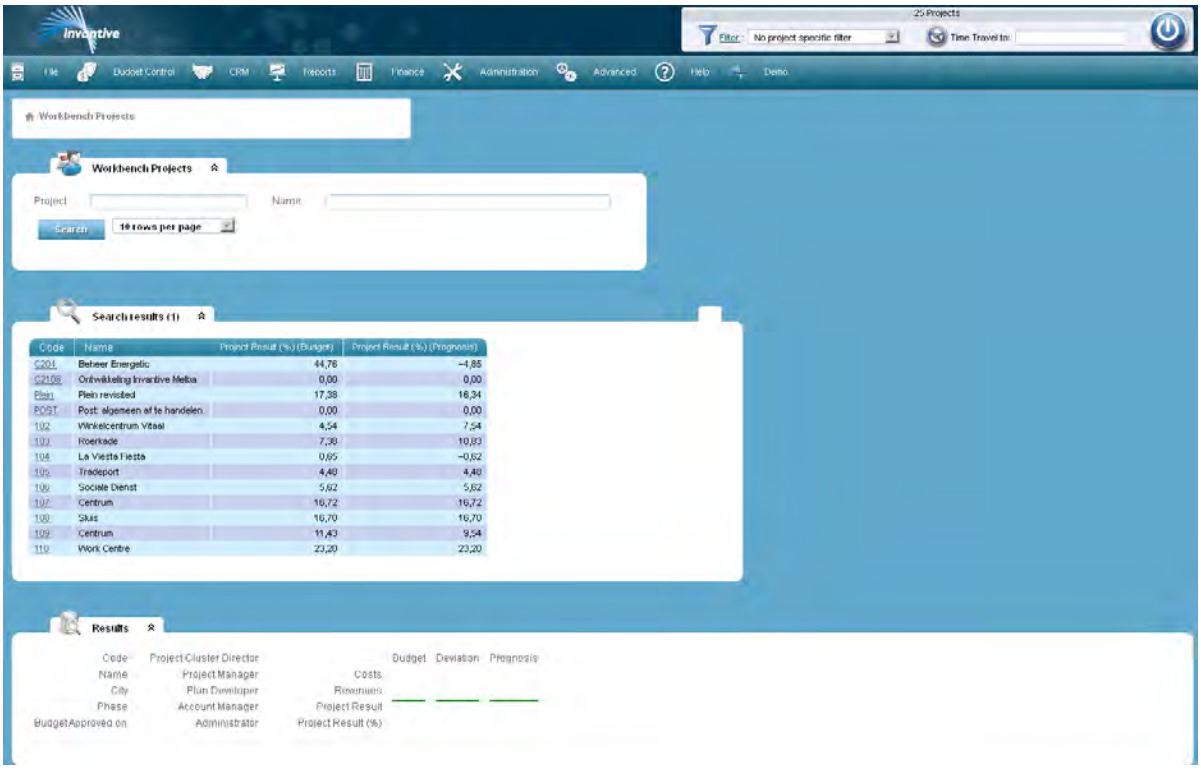
This section discusses functions that can be found under ‘Budget Control’ in a default menu structure. These functions are generally mostly used by project developers, since they are primarily responsible for the financial result and since they have the best view on the current status.

1.2.3.1 Projects

Enter text here.

Projects Workbank

This screen allows you to retrieve a project workbench containing all relevant information consolidated and integrated into one overall picture. The workbench is focused on project developers.

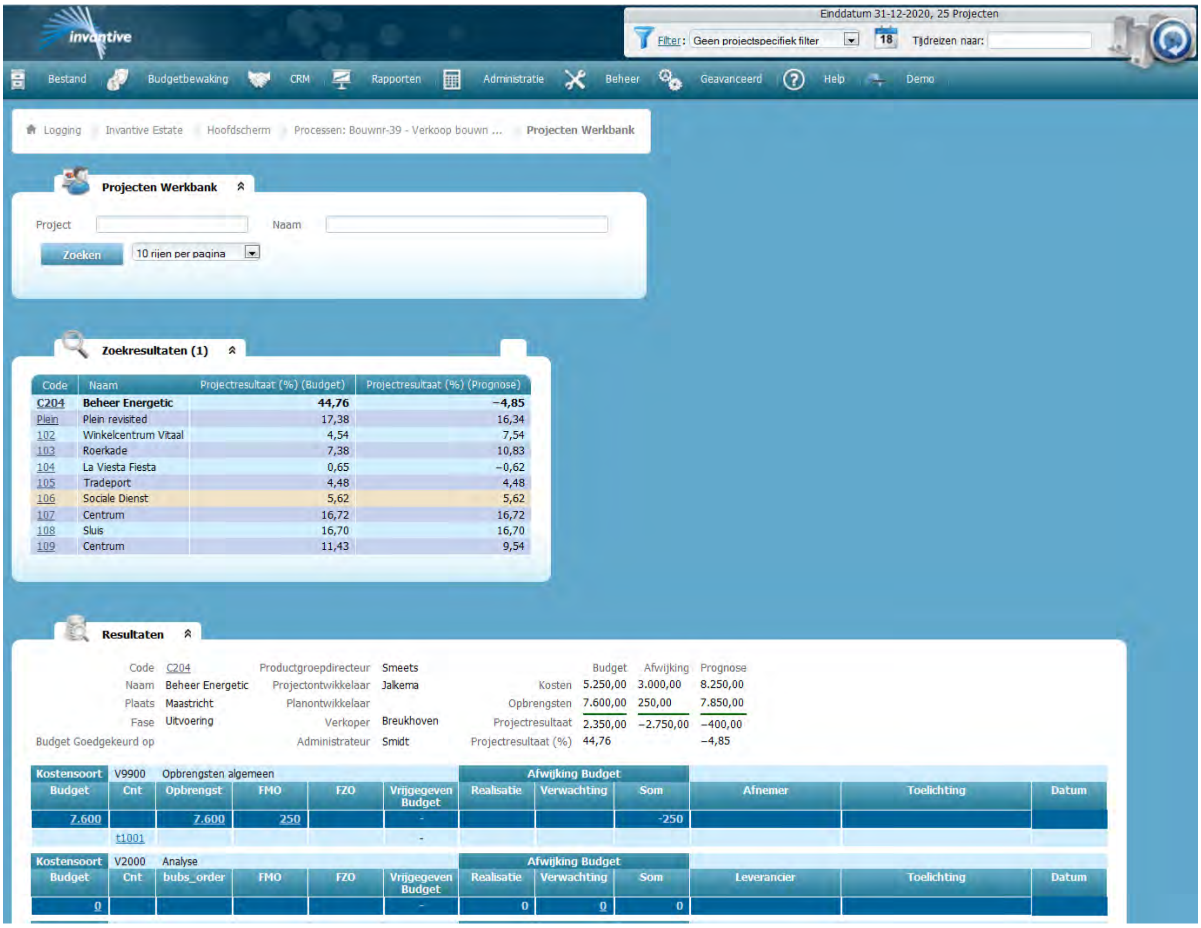

Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Workbench Projects
Workbench Projects
Project
Name
Search
10 rows per page
Search results (1)
Results
Code
Name
City
Phase
Budget Approved on
Project Cluster Director
Project Manager
Plan Developer
Account Manager
Administrator
Costs
Revenues
Project Result
Project Result (%)
Budget
Deviation
Prognosis

Code	Name	Project Result (%) (Budget)	Project Result (%) (Prognosis)
C204	Beheer Energetic	44,76	-4,85
C2108	Ontwikkeling Invantive Melba	0,00	0,00
Plein	Plein revisited	17,38	16,34
POST	Post: algemeen af te handelen.	0,00	0,00
102	Winkelcentrum Vitaal	4,54	7,54
103	Roerkade	7,38	10,83
104	La Viesta Fiesta	0,65	-0,62
105	Tradeport	4,40	4,40
106	Sociale Dienst	5,62	5,62
107	Centrum	16,72	16,72
108	Sluis	16,70	16,70
109	Centrum	11,43	9,54
110	Work Centre	23,20	23,20

After you select a project in the search results the underlying relevant project details at level 4 (see Financial Project Overview Level 4 78) is shown.

Notice: the workbench automatically displays the details if a project is directly selected with the shortcut filter right above in the screen. In that case the search section at the top will be hidden.

Below a portion of the screen with the details of the project 'C204' is shown.


invantive
Einddatum 31-12-2020, 25 Projecten
Filter: Geen projectspecifiek filter
18
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Logging
Invantive Estate
Hoofdscherm
Processen: Bouwnr-39 - Verkoop bouwn ...
Projecten Werkbank
Projecten Werkbank
Project
Naam
Zoeken
10 rijen per pagina
Zoekresultaten (1)
Resultaten

Code	Naam	Projectresultaat (%) (Budget)	Projectresultaat (%) (Prognose)
C204	**Beheer Energetic**	**44,76**	**−4,85**
Plein	Plein revisited	17,38	16,34
102	Winkelcentrum Vitaal	4,54	7,54
103	Roerkade	7,38	10,83
104	La Viesta Fiesta	0,65	−0,62
105	Tradeport	4,48	4,48
106	Sociale Dienst	5,62	5,62
107	Centrum	16,72	16,72
108	Sluis	16,70	16,70
109	Centrum	11,43	9,54

Code C204
Naam Beheer Energetic
Plaats Maastricht
Fase Uitvoering
Budget Goedgekeurd op

Productgroepdirecteur Smeets
Projectontwikkelaar Jalkema
Planontwikkelaar
Verkoper Breukhoven
Administrateur Smidt

	Budget	Afwijking	Prognose
Kosten	5.250,00	3.000,00	8.250,00
Opbrengsten	7.600,00	250,00	7.850,00
Projectresultaat	2.350,00	−2.750,00	−400,00
Projectresultaat (%)	44,76		−4,85

Kostensoort	V9900	Opbrengsten algemeen				Afwijking Budget					
Budget	Cnt	Opbrengst	FMO	FZO	Vrijgegeven Budget	Realisatie	Verwachting	Som	Afnemer	Toelichting	Datum
7.600		7.600	250		-			-250			
	t1001				-						

Kostensoort	V2000	Analyse				Afwijking Budget					
Budget	Cnt	bubs_order	FMO	FZO	Vrijgegeven Budget	Realisatie	Verwachting	Som	Leverancier	Toelichting	Datum
0					-	0	0	0			

The screen displays all data on a monitor with a minimum resolution of 1024x768 pixels unless texts are longer than expected.

The workbench shows per cost type, for both costs and revenues, the differences from the budget.

From the data seen at this leven, like budgets, contracts, orders, invoice lines, you can see or change the underlying details via hyperlinks. Hyperlinks are displayed as blue underlined text.

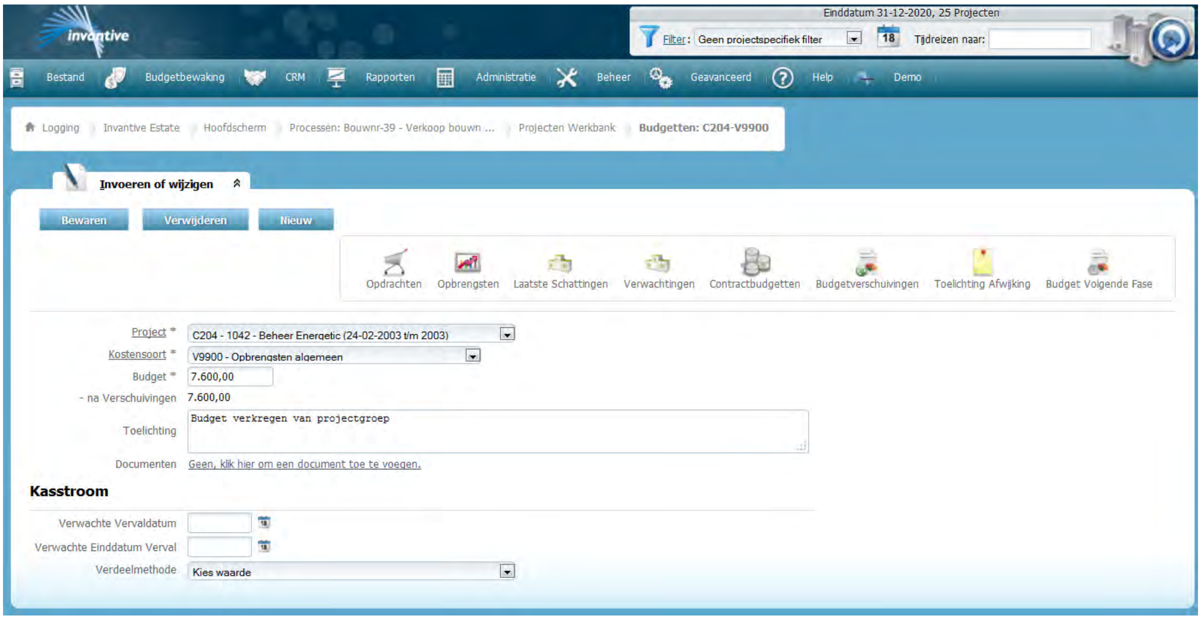
In the screen itself no changes can be made. A pop-up window always opens first via the hyperlink.

In the screen two types of hyperlinks are used:

1. The first category opens the underlying data which can be edited instantly.

An example of this category is, when you click on a hyperlink of a budget. Then the following window appears on top of the already opened window containing the information of the selected order:

In the following window the pop-up screen is shown after the budget hyperlink ‘7.600’ belonging to contract ‘V9900’ was selected.


invantive
Einddatum 31-12-2020, 25 Projecten
Filter: Geen projectspecifiek filter
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Logging
Invantive Estate
Hoofdscherm
Processen: Bouwnr-39 - Verkoop bouwn ...
Projecten Werkbank
Budgetten: C204-V9900
Invoeren of wijzigen
Bewaren
Verwijderen
Nieuw
Opdrachten
Opbrengsten
Laatste Schattingen
Verwachtingen
Contractbudgetten
Budgetverschuivingen
Toelichting Afwijking
Budget Volgende Fase

Project * C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003)
Kostensoort * V9900 - Opbrengsten algemeen
Budget * 7.600,00
- na Verschuivingen 7.600,00
Toelichting Budget verkregen van projectgroep
Documenten Geen, klik hier om een document toe te voegen.

Kasstroom

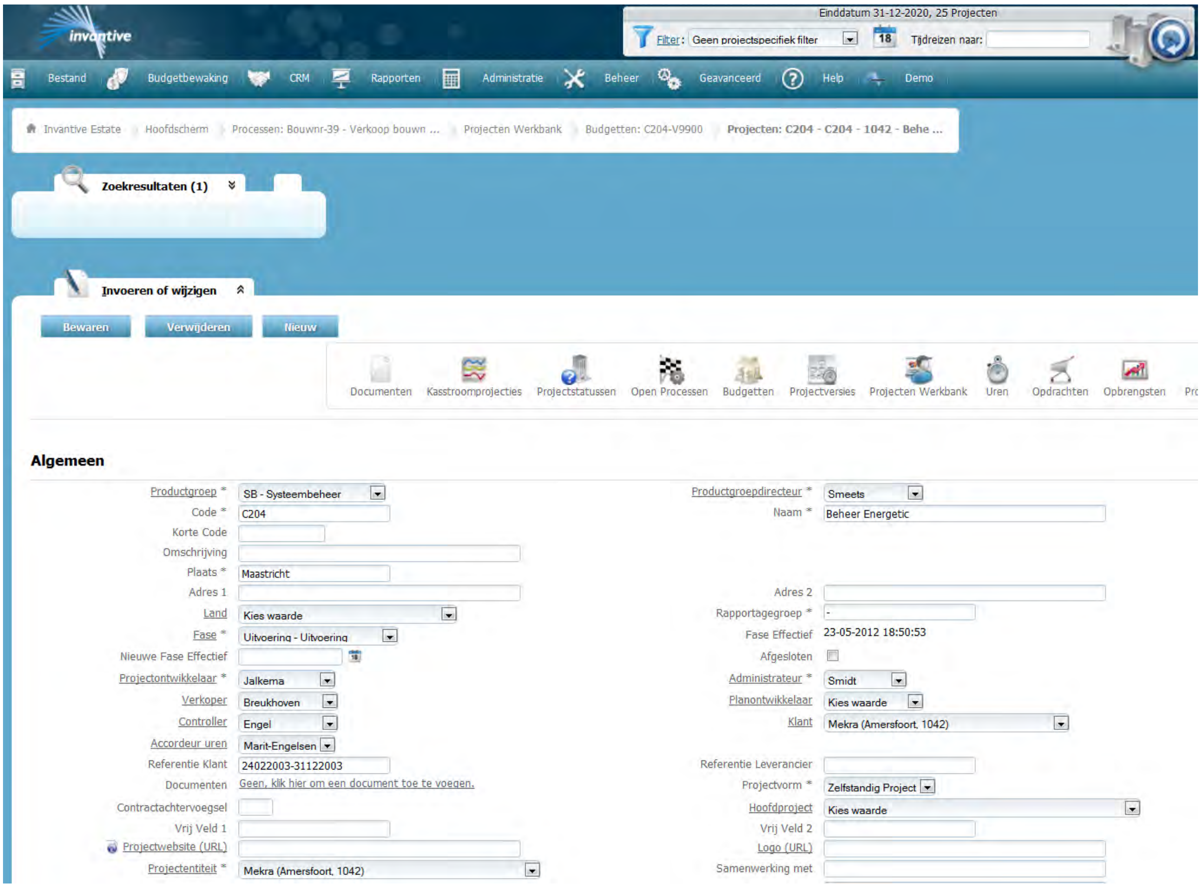
Verwachte Vervaldatum
Verwachte Einddatum Verval
Verdeelmethode Kies waarde

The data in this screen you can edit as described in Budgets 149.

When you close this window , the workbench window stays opened. To recalculate the workbench with your changes, press F5 (refresh).

2. The second category hyperlinks opens a window with a menu which allows multiple actions to be performed.

An example of this category is, when you select the hyperlink of the project. Then a screen will appear as in the example below:

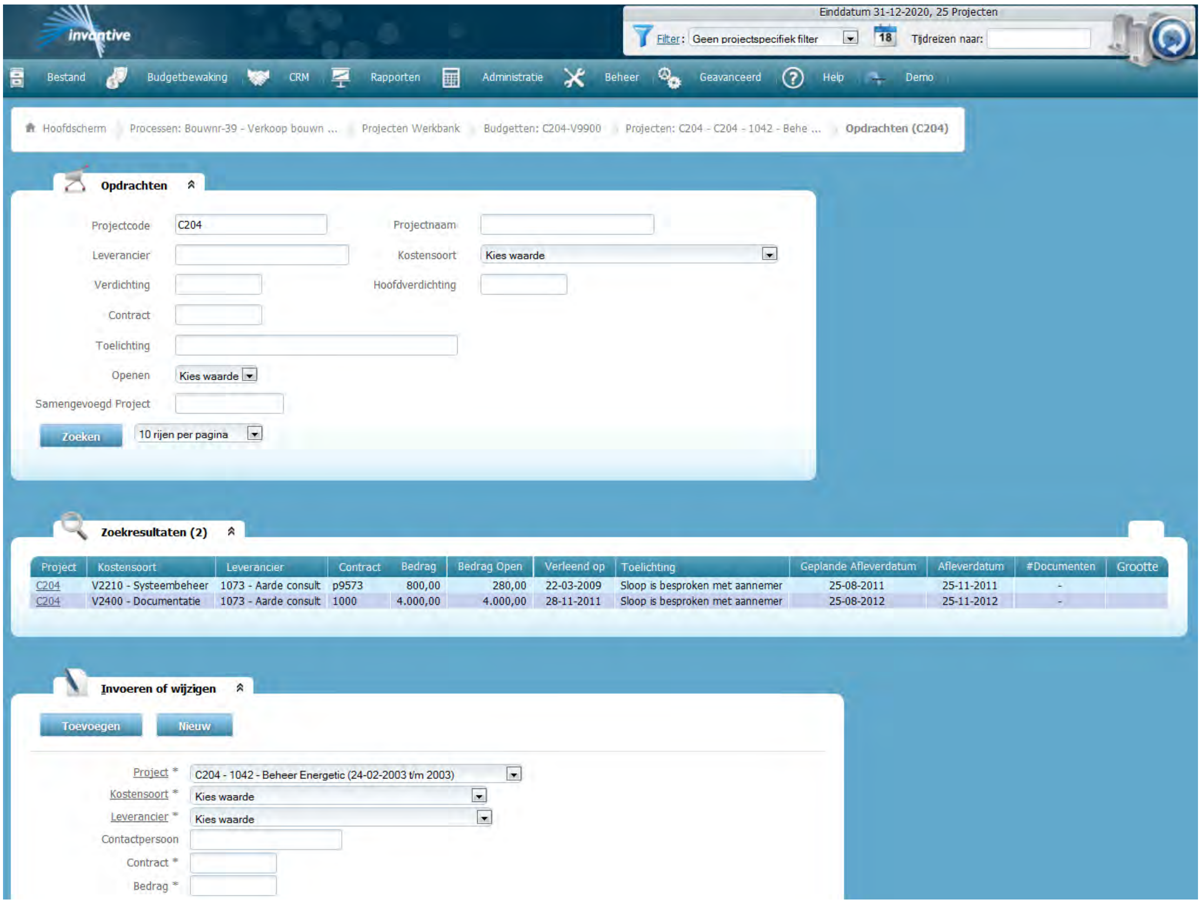

invantive
Einddatum 31-12-2020, 25 Projecten
Filter: Geen projectspecifiek filter
18
Tijdreizen naar:
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Invantive Estate
Hoofdscherm
Processen: Bouwnr-39 - Verkoop bouwn ...
Projecten Werkbank
Budgetten: C204-V9900
Projecten: C204 - C204 - 1042 - Behe ...
Zoekresultaten (1)
Invoeren of wijzigen
Bewaren
Verwijderen
Nieuw
Documenten
Kasstroomprojecties
Projectstatussen
Open Processen
Budgetten
Projectversies
Projecten Werkbank
Uren
Opdrachten
Opbrengsten
Pro

Algemeen

Productgroep *: SB - Systeembeheer
Code *: C204
Korte Code:
Omschrijving:
Plaats *: Maastricht
Adres 1:
Land: Kies waarde
Fase *: Uitvoering - Uitvoering
Nieuwe Fase Effectief:
Projectontwikkelaar *: Jalkema
Verkoper: Breukhoven
Controller: Engel
Accordeur uren: Marit-Engelsen
Referentie Klant: 24022003-31122003
Documenten: Geen, klik hier om een document toe te voegen.
Contractachtervoegsel:
Vrij Veld 1:
Projectwebsite (URL):
Projectentiteit *: Mekra (Amersfoort, 1042)

Productgroepdirecteur *: Smeets
Naam *: Beheer Energetic
Adres 2:
Rapportagegroep *: -
Fase Effectief: 23-05-2012 18:50:53
Afgesloten: ☐
Administrateur *: Smidt
Planontwikkelaar: Kies waarde
Klant: Mekra (Amersfoort, 1042)
Referentie Leverancier:
Projectvorm *: Zelfstandig Project
Hoofdproject: Kies waarde
Vrij Veld 2:
Logo (URL):
Samenwerking met:

By clicking on one of the present action buttons 14 in the right top of the screen, such as for example, ‘orders’, the corresponding information will be displayed.


invantive
Bestand
Budgetbewaking
CRM
Rapporten
Administratie
Beheer
Geavanceerd
Help
Demo
Hoofdscherm
Processen: Bouwnr-39 - Verkoop bouwn ...
Projecten Werkbank
Budgetten: C204-V9900
Projecten: C204 - C204 - 1042 - Behe ...
Opdrachten (C204)
Opdrachten
Zoeken
Zoekresultaten (2)
Invoeren of wijzigen
Toevoegen
Nieuw

Einddatum 31-12-2020, 25 Projecten

Filter: Geen projectspecifiek filter

Tijdreizen naar:

Projectcode	C204
Projectnaam	
Leverancier	
Kostensoort	Kies waarde
Verdichting	
Hoofdverdichting	
Contract	
Toelichting	
Openen	Kies waarde
Samengevoegd Project	

10 rijen per pagina

Project	Kostensoort	Leverancier	Contract	Bedrag	Bedrag Open	Verleend op	Toelichting	Geplande Afleverdatum	Afleverdatum	#Documenten	Grootte
C204	V2210 - Systeembeheer	1073 - Aarde consult	p9573	800,00	280,00	22-03-2009	Sloop is besproken met aannemer	25-08-2011	25-11-2011	-	
C204	V2400 - Documentatie	1073 - Aarde consult	1000	4.000,00	4.000,00	28-11-2011	Sloop is besproken met aannemer	25-08-2012	25-11-2012	-	

Project *	C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003)
Kostensoort *	Kies waarde
Leverancier *	Kies waarde
Contactpersoon	
Contract *	
Bedrag *	

The data in this screen you can edit as described in Orders 65.

When you close this window , the workbench window stays opened. To recalculate the workbench with your changes, press F5 (refresh).

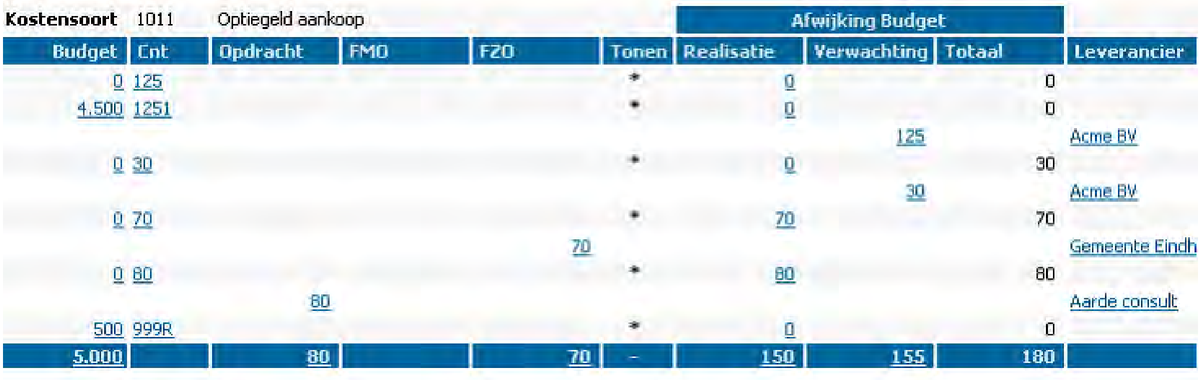
Budget Deviation

The workbench also simplifies the handling of the deviation per budget per cost category. The column ‘Forecast’ lets you open a window where you can enter an increase or decrease to adjust the current balance. Under water the latest estimation is calculated.

Example: The ‘Realization’ balance of a cost category is EUR 150, based on a contract of EUR 80, an invoice without order of EUR 70 and an expectation of EUR 125.

You expect that EUR 30 extra is needed and because of that you enter EUR 30 via ‘Expectation’.

Now the total deviation becomes EUR 180.



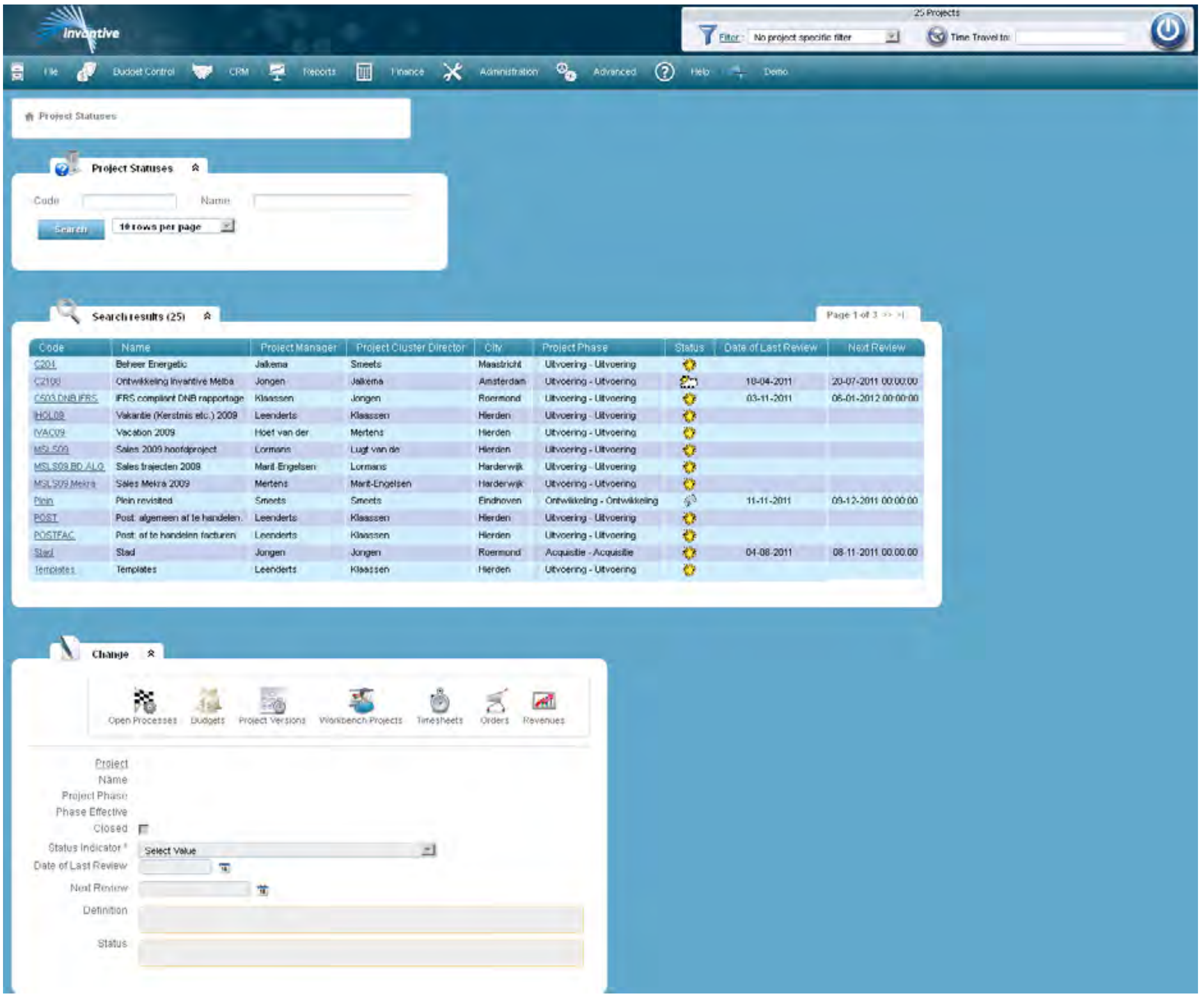
Kostensoort 1011 Optiegeld aankoop

Budget	Cnt	Opdracht	FMO	FZO	Tonen	Afwijking Budget Realisatie	Verwachting	Totaal	Leverancier
0	125				*	0		0	
4.500	1251				*	0		0	
							125		Acme BV
0	30				*	0		30	
							30		Acme BV
0	70				*	70		70	
				70					Gemeente Eindh
0	80				*	80		80	
		80							Aarde consult
500	999R				*	0		0	
5.000		80		70	-	150	155	180	

Project Statuses

In this form you can register and change the project statuses.

The project status is a brief summary of the overall condition of the project plus a textual explanation of the entire project. Short textual explanations concerning cost categories and budget exceedings on a cost category can be made by Comment Deviation 75. With this explanation you can explain the story behind the figures and the progress.



Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Project Statuses
Project Statuses
Code
Name
Search
10 rows per page
Search results (25)
Page 1 of 3 >> >|

Code	Name	Project Manager	Project Cluster Director	City	Project Phase	Status	Date of Last Review	Next Review
C201	Beheer Energetic	Jalkema	Smeets	Maastricht	Uitvoering - Uitvoering	☀		
C2100	Ontwikkeling Invantive Melba	Jongen	Jalkema	Amsterdam	Uitvoering - Uitvoering	⛅	18-04-2011	20-07-2011 00:00:00
C503.DNB.IFRS	IFRS compliant DNB rapportage	Klaassen	Jongen	Roermond	Uitvoering - Uitvoering	☀	03-11-2011	06-01-2012 00:00:00
IHOL09	Vakantie (Kerstmis etc.) 2009	Leenderts	Klaassen	Hierden	Uitvoering - Uitvoering	☀		
IVAC09	Vacation 2009	Hoef van der	Mertens	Hierden	Uitvoering - Uitvoering	☀		
MSLS09	Sales 2009 hoofdproject	Lormans	Lugt van de	Hierden	Uitvoering - Uitvoering	☀		
MSLS09.BD.ALG	Sales trajecten 2009	Marit Engelsen	Lormans	Harderwijk	Uitvoering - Uitvoering	☀		
MSLS09.Mekra	Sales Mekra 2009	Mertens	Marit-Engelsen	Harderwijk	Uitvoering - Uitvoering	☀		
Plein	Plein revisited	Smeets	Smeets	Eindhoven	Ontwikkeling - Ontwikkeling	☁	11-11-2011	09-12-2011 00:00:00
POST	Post: algemeen af te handelen.	Leenderts	Klaassen	Hierden	Uitvoering - Uitvoering	☀		
POSTFAC	Post: af te handelen facturen	Leenderts	Klaassen	Hierden	Uitvoering - Uitvoering	☀		
Stad	Stad	Jongen	Jongen	Roermond	Acquisitie - Acquisitie	☀	04-08-2011	08-11-2011 00:00:00
Templates	Templates	Leenderts	Klaassen	Hierden	Uitvoering - Uitvoering	☀		

Change
Open Processes
Budgets
Project Versions
Workbench Projects
Timesheets
Orders
Revenues
Project
Name
Project Phase
Phase Effective
Closed
Status Indicator *
Select Value
Date of Last Review
Next Review
Definition
Status

The meaning of the entry fields is:

Status Indicator	A list that classifies a project in terms of progress and budget control into one of the six possible classes.

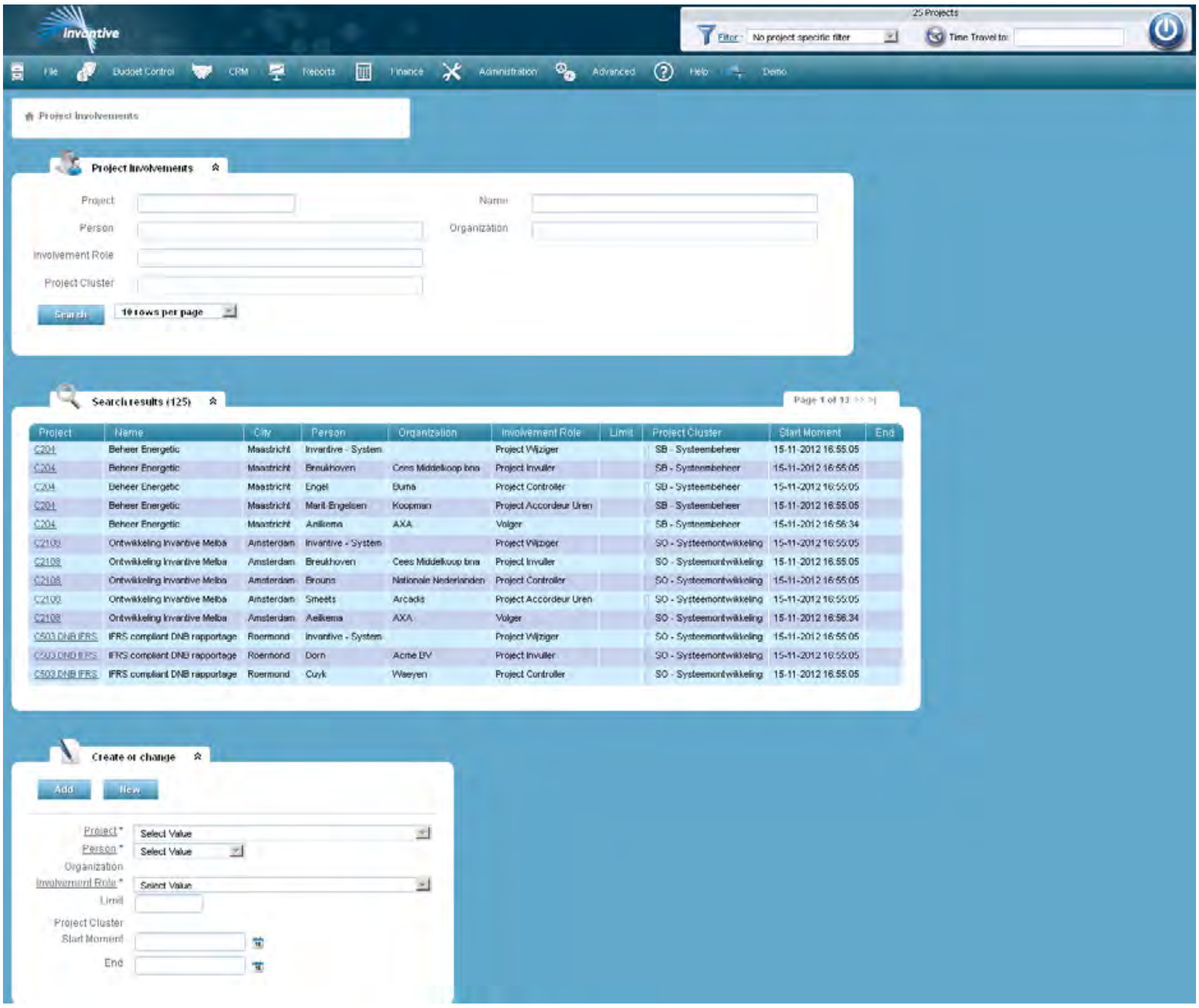
Date of Last Review	The date the last review of the project took place.
Next Review	The date the next review of the project should take place.
Status	A textual explanation of the project's status. In theory, this explanation has a free format, but via the blue arrow (below the status field) you can select standard formats (templates) as your organization makes them available.

The meaning of the other fields:

Code	Reference to a project code as registered in Projects 124.
Name	Reference to a project name as registered in Projects 124.
Project developer	Reference to the responsible project developer as registered in Projects 124.
Product Group Director	Reference to the responsible product group director for the project as registered in Projects 124.
City	The city in which the project is being executed as registered in Projects 124.
Project Phase	The phase of the project as registered in Projects 124.

Project Involvements

In this screen you can register and change project involvements.


Invantive
25 Projects
Filter
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Project Involvements
Project Involvements
Project
Name
Person
Organization
Involvement Role
Project Cluster
Search
10 rows per page
Search results (125)
Page 1 of 13 >> >|
Create or change
Add
New
Project *
Select Value
Person *
Select Value
Organization
Involvement Role *
Select Value
Limit
Project Cluster
Start Moment
End

Project	Name	City	Person	Organization	Involvement Role	Limit	Project Cluster	Start Moment	End
C204	Beheer Energetic	Maastricht	Invantive - System		Project Wijziger		SB - Systeembeheer	15-11-2012 16:55:05	
C204	Beheer Energetic	Maastricht	Breukhoven	Cees Middelkoop bna	Project Invuller		SB - Systeembeheer	15-11-2012 16:55:05	
C204	Beheer Energetic	Maastricht	Engel	Buma	Project Controller		SB - Systeembeheer	15-11-2012 16:55:05	
C204	Beheer Energetic	Maastricht	Marit Engelsen	Koopman	Project Accordeur Uren		SB - Systeembeheer	15-11-2012 16:55:05	
C204	Beheer Energetic	Maastricht	Anikema	AXA	Volger		SB - Systeembeheer	15-11-2012 16:56:34	
C2108	Ontwikkeling Invantive Melba	Amsterdam	Invantive - System		Project Wijziger		SO - Systeemontwikkeling	15-11-2012 16:55:05	
C2108	Ontwikkeling Invantive Melba	Amsterdam	Breukhoven	Cees Middelkoop bna	Project Invuller		SO - Systeemontwikkeling	15-11-2012 16:55:05	
C2108	Ontwikkeling Invantive Melba	Amsterdam	Brouns	Nationale Nederlanden	Project Controller		SO - Systeemontwikkeling	15-11-2012 16:55:05	
C2108	Ontwikkeling Invantive Melba	Amsterdam	Smeets	Arcadis	Project Accordeur Uren		SO - Systeemontwikkeling	15-11-2012 16:55:05	
C2108	Ontwikkeling Invantive Melba	Amsterdam	Aeikema	AXA	Volger		SO - Systeemontwikkeling	15-11-2012 16:56:34	
C503 DNB IFRS	IFRS compliant DNB rapportage	Roermond	Invantive - System		Project Wijziger		SO - Systeemontwikkeling	15-11-2012 16:55:05	
C503 DNB IFRS	IFRS compliant DNB rapportage	Roermond	Dorn	Acme BV	Project Invuller		SO - Systeemontwikkeling	15-11-2012 16:55:05	
C503 DNB IFRS	IFRS compliant DNB rapportage	Roermond	Cuyk	Waeyen	Project Controller		SO - Systeemontwikkeling	15-11-2012 16:55:05	

The meaning of the entry fields is:

Project	Reference to a process as registered in Projects 124.
Person	Reference to a person as registered in Persons 97.
Involvement Role	The role assigned to the person within the project.

Limit	Deviating limit used for managing workflow transitions. You can only create a process status transition (for example. From Command requested to Command approved) provided that your involvement on the project is for at least that and that limit. The project involvement is normally copied to the process involvement.

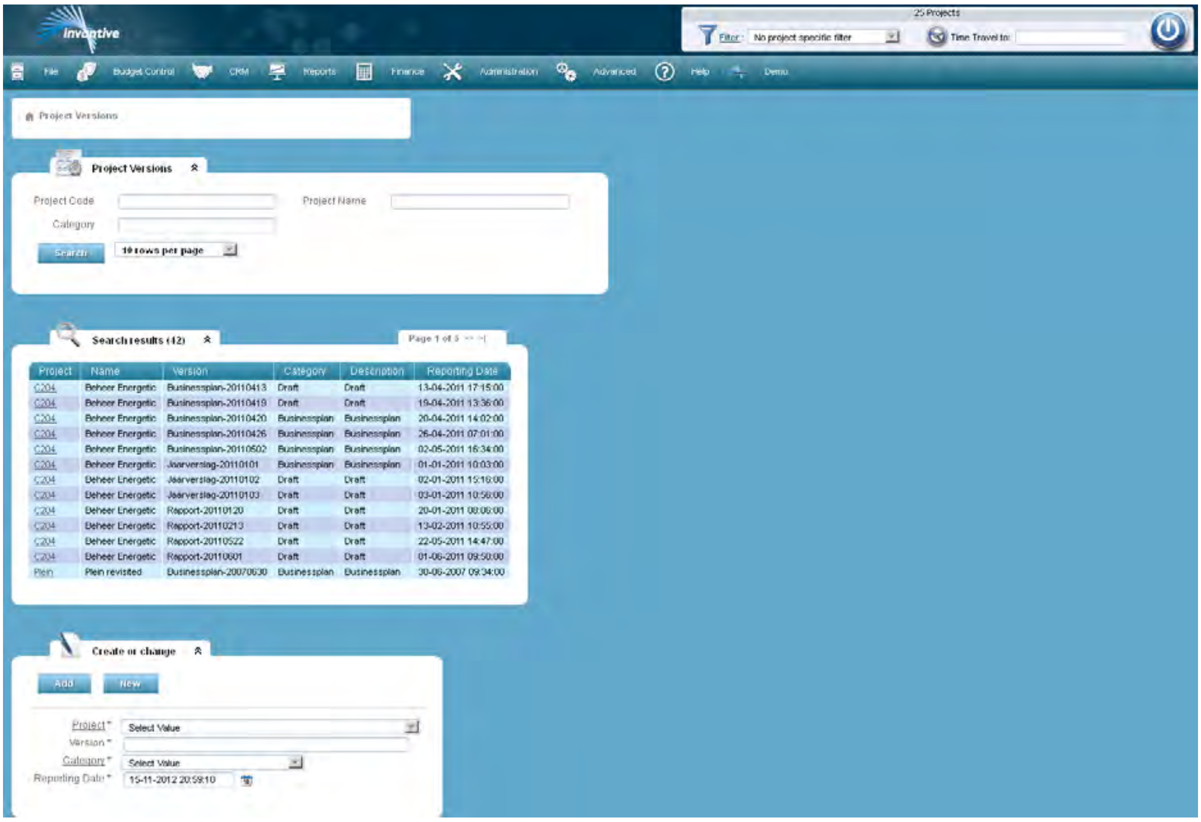
The meaning of the other fields:

Name	The name of the project.
City	Location of the project.
Product group	The product group of the project.

Project Versions

In the screen ‘Project Versions’ you can create snapshots of a project.

This function is useful when you want to evaluate the project in time. When you snapshot a project, the current data of a project is stored and can be accessed at any time. If you add a new project version, all derived data will be updated. The time used for adding a project version depends on the complexity and the number of Project Version Views 261.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Project Versions
Project Versions
Project Code
Project Name
Category
Search
10 rows per page
Search results (42)
Page 1 of 5
Create or change
Add
New

Project	Name	Version	Category	Description	Reporting Date
C204	Beheer Energetic	Businessplan-20110413	Draft	Draft	13-04-2011 17:15:00
C204	Beheer Energetic	Businessplan-20110419	Draft	Draft	19-04-2011 13:36:00
C204	Beheer Energetic	Businessplan-20110420	Businessplan	Businessplan	20-04-2011 14:02:00
C204	Beheer Energetic	Businessplan-20110426	Businessplan	Businessplan	26-04-2011 07:01:00
C204	Beheer Energetic	Businessplan-20110502	Businessplan	Businessplan	02-05-2011 16:34:00
C204	Beheer Energetic	Jaarverslag-20110101	Businessplan	Businessplan	01-01-2011 10:03:00
C204	Beheer Energetic	Jaarverslag-20110102	Draft	Draft	02-01-2011 15:16:00
C204	Beheer Energetic	Jaarverslag-20110103	Draft	Draft	03-01-2011 10:56:00
C204	Beheer Energetic	Rapport-20110120	Draft	Draft	20-01-2011 08:06:00
C204	Beheer Energetic	Rapport-20110213	Draft	Draft	13-02-2011 10:55:00
C204	Beheer Energetic	Rapport-20110522	Draft	Draft	22-05-2011 14:47:00
C204	Beheer Energetic	Rapport-20110601	Draft	Draft	01-06-2011 09:50:00
Plein	Plein revisited	Businessplan-20070630	Businessplan	Businessplan	30-06-2007 09:34:00

Project *: Select Value
Version *:
Category *: Select Value
Reporting Date *: 15-11-2012 20:59:10

The meaning of the entry fields is:

Project	A combination of the code and the name of a project.
Version	Here you can enter the name of the project version.
Category	Reference to a project category as registered in Project Version Categories 164.
Reporting Date	The date the snapshot of a project was created.

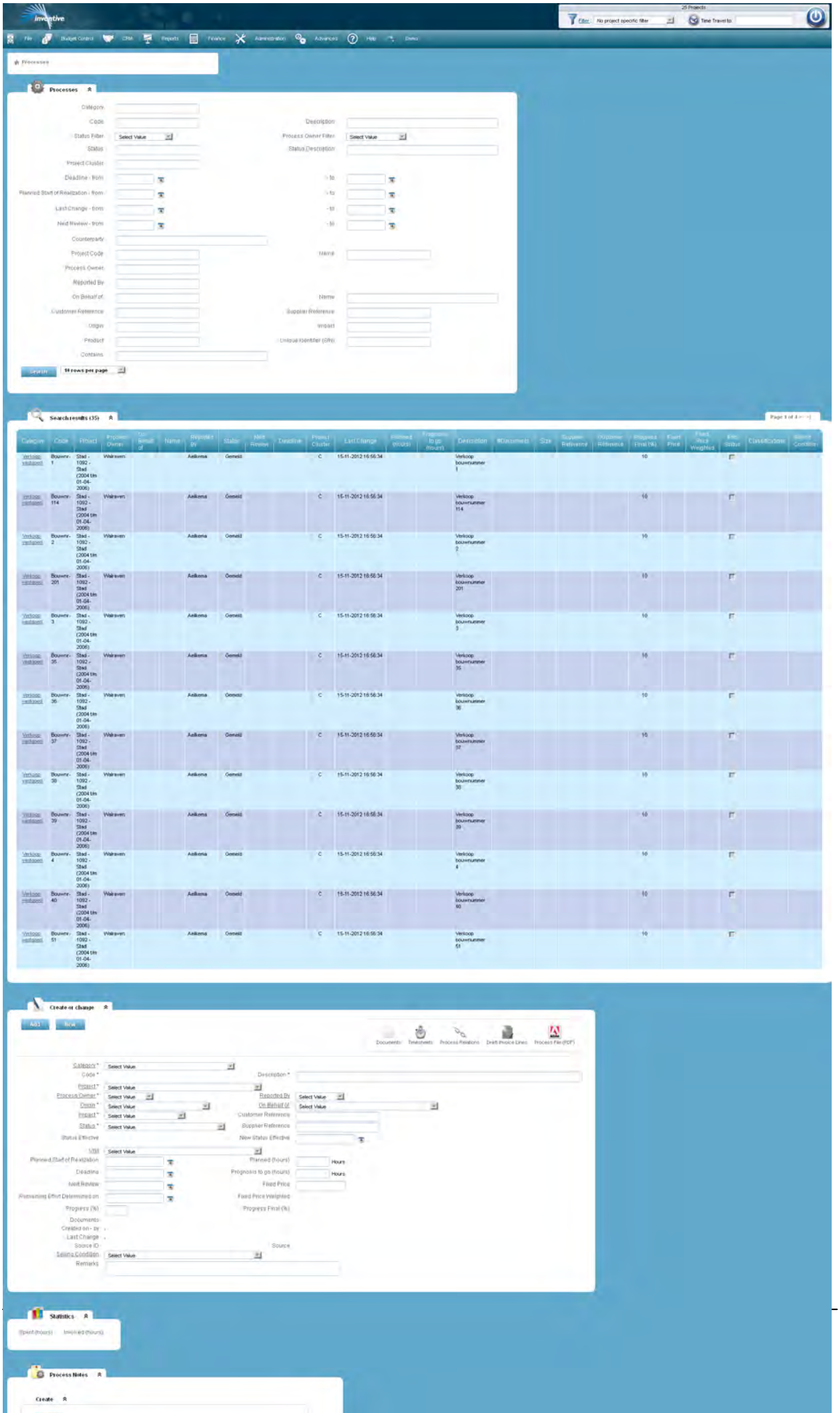
1.2.3.2 Processes

Enter text here.

Processes

In this screen you can register and change processes, along with their history..

A process is an activity to be executed to complete a project. Normally, not all activities are recorded as a process. Usually only the critical activities or the activities that should be monitored separately, are registered as a process. An example of a process that should be monitored separately is a process that has to be performed by several people,


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Processes
Processes
Category
Code
Description
Status Filter
Select Value
Process Owner Filter
Select Value
Status
Status Description
Project Cluster
Deadline - from
- to
Planned Start of Realization - from
- to
Last Change - from
- to
Next Review - from
- to
Counterparty
Project Code
Name
Process Owner
Reported By
On Behalf of
Name
Customer Reference
Supplier Reference
Origin
Impact
Product
Unique Identifier (SRN)
Contains
Search
10 rows per page
Search results (35)
Page 1 of 4
Create or change
Add
New
Documents
Timesheets
Process Relations
Draft Invoice Lines
Process File (PDF)
Category *
Select Value
Code *
Description *
Project *
Select Value
Process Owner *
Select Value
Reported By
Select Value
Origin *
Select Value
On Behalf of
Select Value
Impact *
Select Value
Customer Reference
Status *
Select Value
Supplier Reference
Status Effective
New Status Effective
Unit
Select Value
Planned Start of Realization
Planned (hours)
Hours
Deadline
Prognosis to go (hours)
Hours
Next Review
Fixed Price
Remaining Effort Determined on
Fixed Price Weighted
Progress (%)
Progress Final (%)
Documents
Created on - by
Last Change
Source ID
Source
Selling Condition
Select Value
Remarks
Statistics
Spent (hours)
Invoiced (hours)
Process Notes
Create

Category	Code	Project	Process Owner	On Behalf of	Name	Reported By	Status	Next Review	Deadline	Project Cluster	Last Change	Planned (hours)	Prognosis to go (hours)	Description	#Documents	Size	Supplier Reference	Customer Reference	Progress Final (%)	Fixed Price	Fixed Price Weighted	Ext. Status	Classifications	Selling Condition
Verkoop vastgoed	Bouwnr-1	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 1					10			☐		
Verkoop vastgoed	Bouwnr-114	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 114					10			☐		
Verkoop vastgoed	Bouwnr-2	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 2					10			☐		
Verkoop vastgoed	Bouwnr-201	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 201					10			☐		
Verkoop vastgoed	Bouwnr-3	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 3					10			☐		
Verkoop vastgoed	Bouwnr-35	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 35					10			☐		
Verkoop vastgoed	Bouwnr-36	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 36					10			☐		
Verkoop vastgoed	Bouwnr-37	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 37					10			☐		
Verkoop vastgoed	Bouwnr-38	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 38					10			☐		
Verkoop vastgoed	Bouwnr-39	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 39					10			☐		
Verkoop vastgoed	Bouwnr-4	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 4					10			☐		
Verkoop vastgoed	Bouwnr-40	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 40					10			☐		
Verkoop vastgoed	Bouwnr-51	Stad - 1092 - Stad (2004 t/m 01-04-2006)	Walraven			Aalkema	Gemeld			C	15-11-2012 16:56:34			Verkoop bouwnummer 51					10			☐		

The meaning of the entry fields is:

General	
Code	The unique code for a process, for example, a contract.
Description	A short description of the target or the problem.
Project	The project to which the process belongs.
Planned Hours	The total number of planned hours to compete the process.
Prognosis to Go Hours	Estimation of the remaining hours required to complete the process.
Hours Determined on	The date on which the forecast of the hours needed to complete the process was made.
Process Holder	The person currently responsible for the following up of the process.
Reported By	The person who has reported the process.
On Behalf of	The organization on behalf of which the process is created.
Origin	The origin of the process.
Supplier Reference	A reference of a Supplier to this process. This can be for instance a report number of a service provider for the heating.
Customer Reference	A reference of the buyer to this process. This can be for instance a reference to a purchasing order.
Category	Processes are grouped according to categoryën. Examples of a process categoryën are: 'documentation', 'failure' and 'installation'.
Unit	The unit where the process relates to, see Units 151.
Fixed Price	You can fill in a fixed price here, if this is relevant on the process.
Impact	The gravity of the problem in case of an unfinished process.
Deadline	The date on which the process should be finished.
Planned Start of Realization	The date on which you planned to start on the running of the process.
Status	The status of the process.
Next Review	The date on which the next review of the process should take place.
Documents	Linked documents, see Linking Documents 29.
Progress (%)	The percentage which shows how long the process still has to go to be finished.
Remarks	Free text field in which notes concerning the process are taken up.
Contract (not visible)	Pattern for the contract code belonging to process units. With this pattern, placeholders are replaced by actual values during invoicing. The following placeholders are supported: ':pjt_code_short,' ':today', ':pjt_code', ':ust_code', ':unt_serial number, ':tak_code', ':hour_yyyy_delivered', ':hour_mm_delivered' and ':hour_dd_delivered'.
Process Notes	
Category	Process notes are grouped to Process Note Categories 173. Examples of note categories are: 'telephone conversations', 'emails' en 'steering committee meetings'.
Publishing Text	Indicator whether the process note should be displayed to users who have a role that does not allow to see all process notes. The administrator can indicate in the screen Roles 158 if the user is allowed to see all documents with the indicator 'See all Process Notes'.
Text	Free text box where notes can be added. The entry field grows according to the size of the data entered.
Classifications	
Classification	The classification of the process. A classification is a label that can be linked to a project, an organization, a process, a document or a person. Using these labels you can find your information more efficient.
Units Used	
Grouping	Group of the process unit. Can be used for accumulation of the task units in task-related groups, such as those are generated by Payment Schedules 184.
Unit	The unit that is used for the realization of the process, see Units 151.
Stock	Payment Schedule of the unit.
#Units	The number of units 151 used to achieve the process.

Process Unit Status	Reference to a Process Unit Status 174.
Unit Sales Price	The price for the used units for the total number of units on this line.
#Billable	The number of units that can be invoiced.
Completed	Delivery date of the units.
Date Start Rate	The date and the number of units in usage.
VAT Code	Reference to a VAT code as registered in VAT codes 183.
Redemption Price	Purchase price of the Unit 151.
Booked	The units 151 are booked when checked.
Explanation	Possible explanation.

The meaning of the other fields:

Status Filter	Here you can choose the status filter. The filter has three values: 'open processes'; 'closed processes' and 'all processes'.
Process Owner Filter	Here you can choose the filter for the process owner.
Counterparty	A reference from a supplier or customer to this process.
Status	Code of the status.
Status Description	Description of the status.
On Behalf of	The organization on behalf of which the process is created.
Name	The name of the process detector.
Product group	The product group to which the process is related. See Product Group 160.
Product	The Product type.
Unique Identifier (SN)	The unique address, location or serial number of the unit.
Contains	A text you want to search the contents of all visible processes. The process related process notes and linked documents to the process are also searched. The text may be expressed as an expression in Oracle Text. Often used search queries are: • 'area': documents containing the word 'area'. • 'area or surface': documents containing the word 'area' or the word 'surface'. • 'area or surface * 3': documents containing the word 'area' or the word 'surface' where the occurrence of the word 'surface' counts three times as heavy as the word 'area'. • 'area' and 'surface': documents containing both the word 'area' and the word 'surface'. • '?area': documents with both the word 'area' and words that look like 'area'. • 'area-surface': documents containing the word 'area' but preferably without the word 'surface'. • 'area;surface': documents containing the word 'area' near to the word 'surface'. • 'area not surface': documents containing the word 'area' but preferably without the word 'surface'. • '$area': documents containing the word 'area' and inflections from it like for example 'areas'. • '% area': documents containing all terms that begin with 'area'. • 'area or (surface and feet)': documents containing the word 'area' or containing a combination of the words 'surface' and 'feet'.
Created at - by	Date at which the process is created and by which the user.
Last Change	Date at which the process was last modified.
Source ID	The unique number of the kind of data which you want to link the process. This field is filled automatically when you open this screen via a 'Process' link in another window. This field together with the field 'Source' makes is possible to retain the relation with the origin of an object for the workflow processes.
Source	The type of data (message, order, project, etc.) to which you want to link the process. This field is filled automatically when you open this screen via a 'Process' link in another window.
Statistics	
Spent (hours)	The number of hours spent to the process up to this moment.
Invoiced (hours)	Number of hours invoiced.

All changes to a process and process notes lead automatically to a message to the process owner by email.

See also Documents 29.

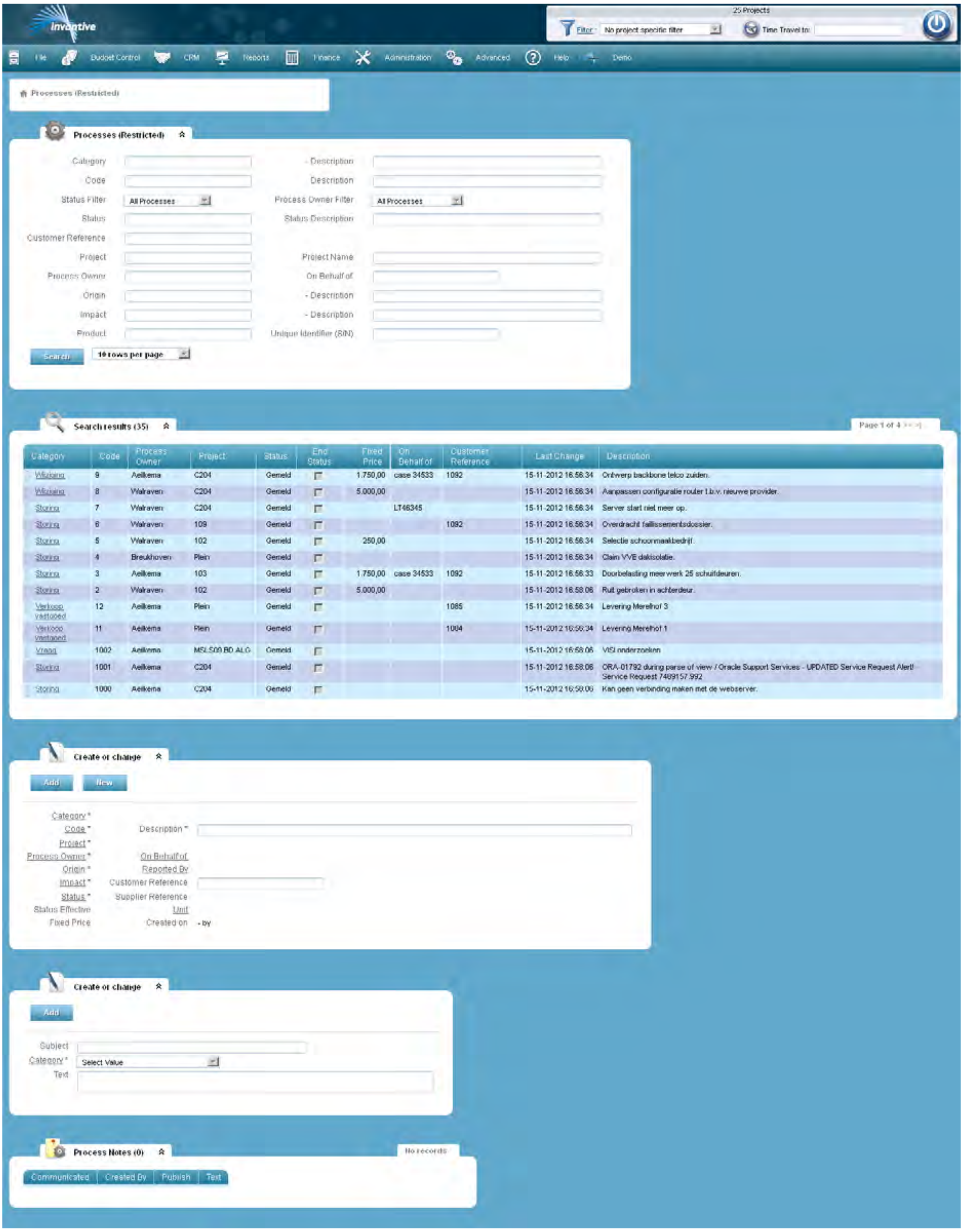
Processes (Limited)

This screen, like the screen Processes 53, allows you to register and edit processes, along with their history.

The difference with the screen Processes 53 is that this screen is for users with limited rights that may only see published information (the end-users). In the screen ‘Processes (Restricted)’ the option ‘publish’ is always selected and therefore process notes included in this screen will be visible to all users.

Compared to the screen Processes 53 the fields ‘Planned hours’, ‘Prognosis to go’, ‘Deadline’, ‘Planned Start of Realization’, ‘Documents’ and ‘Publish’ are missing.

The definition of a process and the meaning of the fields can be found in the section Processes 53.

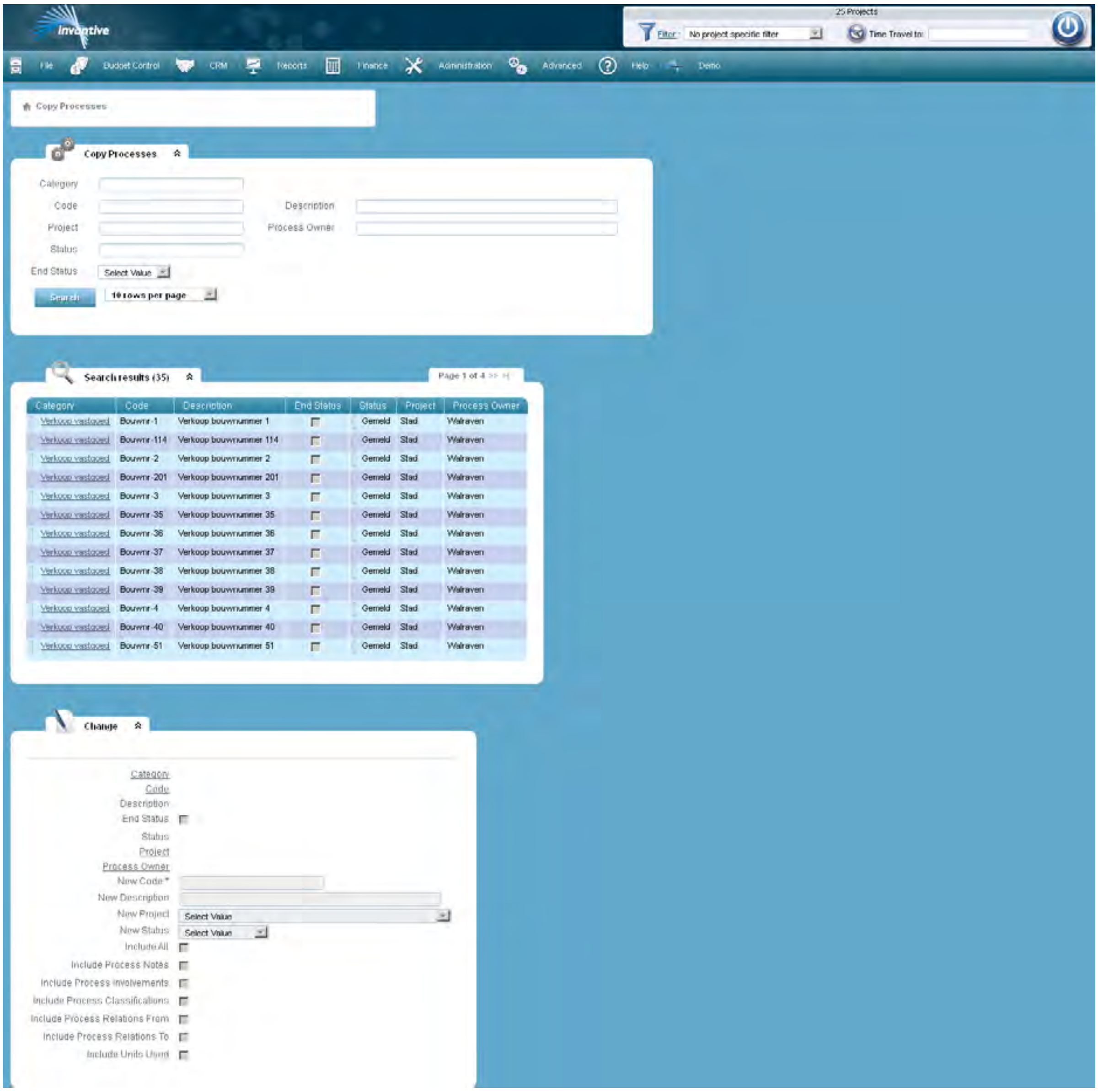

Invantive
25 Projects
Filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Processes (Restricted)
Category
Code
Status Filter
Status
Customer Reference
Project
Process Owner
Origin
Impact
Product
Description
Process Owner Filter
Status Description
Project Name
On Behalf of
Unique Identifier (SIN)
Search
Search results (35)
Page 1 of 4
Create or change
Add
New
Category *
Code *
Project *
Process Owner *
Origin *
Impact *
Status *
Status Effective
Fixed Price
Description *
On Behalf of
Reported By
Customer Reference
Supplier Reference
Unit
Created on - by
Subject
Text
Process Notes (0)
No records
Communicated
Created By
Publish
Text

Filter: No project specific filter
Status Filter: All Processes
Process Owner Filter: All Processes
10 rows per page
Category *: Select Value

Category	Code	Process Owner	Project	Status	End Status	Fixed Price	On Behalf of	Customer Reference	Last Change	Description
Wijziging	9	Aeilkema	C204	Gemeld	☐	1.750,00	case 34533	1092	15-11-2012 16:56:34	Ontwerp backbone telco zuiden.
Wijziging	8	Walraven	C204	Gemeld	☐	5.000,00			15-11-2012 16:56:34	Aanpassen configuratie router t.b.v. nieuwe provider.
Storing	7	Walraven	C204	Gemeld	☐		LT46345		15-11-2012 16:56:34	Server start niet meer op.
Storing	6	Walraven	109	Gemeld	☐			1092	15-11-2012 16:56:34	Overdracht faillissementsdossier.
Storing	5	Walraven	102	Gemeld	☐	250,00			15-11-2012 16:56:34	Selectie schoonmaakbedrijf.
Storing	4	Breukhoven	Plein	Gemeld	☐				15-11-2012 16:56:34	Claim VVE dakisolatie.
Storing	3	Aeilkema	103	Gemeld	☐	1.750,00	case 34533	1092	15-11-2012 16:56:33	Doorbelasting meerwerk 25 schuifdeuren.
Storing	2	Walraven	102	Gemeld	☐	5.000,00			15-11-2012 16:58:06	Ruit gebroken in achterdeur.
Verkoop vastgoed	12	Aeilkema	Plein	Gemeld	☐			1085	15-11-2012 16:56:34	Levering Merelhof 3
Verkoop vastgoed	11	Aeilkema	Plein	Gemeld	☐			1004	15-11-2012 16:56:34	Levering Merelhof 1
Vraag	1002	Aeilkema	MSL500 BD ALG	Gemeld	☐				15-11-2012 16:58:06	VISI onderzoeken
Storing	1001	Aeilkema	C204	Gemeld	☐				15-11-2012 16:58:06	ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request Alert! Service Request 7489157.992
Storing	1000	Aeilkema	C204	Gemeld	☐				15-11-2012 16:58:06	Kan geen verbinding maken met de webserver.

Copy Processes

In this screen you can see all existing processes in whole or in part copy.



Copy Processes

Copy Processes

Category

Code

Description

Project

Process Owner

Status

End Status: Select Value

10 rows per page

Search results (35)

Page 1 of 4 >> >|

Category	Code	Description	End Status	Status	Project	Process Owner
Verkoop vastgoed	Bouwnr-1	Verkoop bouwnummer 1	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-114	Verkoop bouwnummer 114	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-2	Verkoop bouwnummer 2	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-201	Verkoop bouwnummer 201	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-3	Verkoop bouwnummer 3	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-35	Verkoop bouwnummer 35	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-36	Verkoop bouwnummer 36	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-37	Verkoop bouwnummer 37	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-38	Verkoop bouwnummer 38	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-39	Verkoop bouwnummer 39	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-4	Verkoop bouwnummer 4	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-40	Verkoop bouwnummer 40	☐	Gemeld	Stad	Walraven
Verkoop vastgoed	Bouwnr-51	Verkoop bouwnummer 51	☐	Gemeld	Stad	Walraven

Change

Category

Code

Description

End Status ☐

Status

Project

Process Owner

New Code*

New Description

New Project: Select Value

New Status: Select Value

Include All ☐

Include Process Notes ☐

Include Process Involvements ☐

Include Process Classifications ☐

Include Process Relations From ☐

Include Process Relations To ☐

Include Units Used ☐

The meaning of the entry fields is:

New Code	The code for the new process.
New Description	New description for the new process.
New Project	New Project from the new process
New Status	New status from the new process.
Include All	If checked, all items listed below will be copied.
Include Process Notes	If checked, the process notes will be copied.
Include Project Involvements	If checked, the project involvements will be copied.
Include Process Classifications	If checked, the process classifications will be copied.
Include Process Relations Van	If checked, the 'process relations van' will be copied.
Include Process Relations To	If checked, the 'process relations to' will be copied.
Include Used Units	If checked, the used units will be copied.

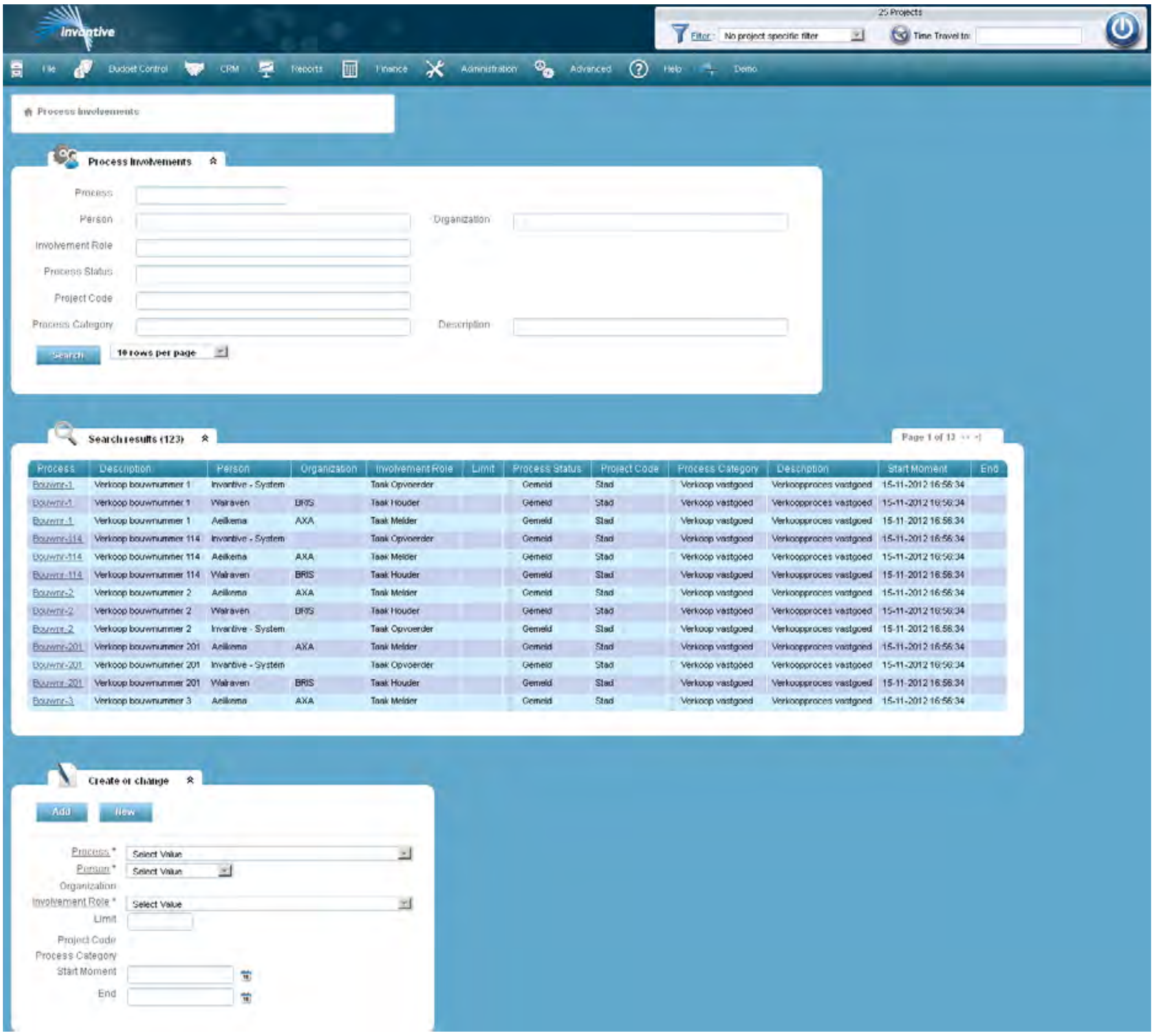
The meaning of the other fields:

Code	The code of the process that will be copied.
Description	The description of the process that is being copied.
End Status	Indicates whether the process that is being copied has the end status.

Status	The status of the process that is being copied, as registrated in Process Statuses 167.
Category	The category of the process that is being copied, as registrated in Process Categories 169.
Project	The project of the process that is being copied, as registrated in Projects 124.
Process Holder	The process owner of the process that is being copied.

Proces involvements

In this screen you can register and change process participations.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Process Involvements
Process Involvements
Process
Person
Organization
Involvement Role
Process Status
Project Code
Process Category
Description
Search
10 rows per page
Search results (123)
Page 1 of 13
Create or change
Add
New
Process *
Person *
Organization
Involvement Role *
Limit
Project Code
Process Category
Start Moment
End
Select Value

Process	Description	Person	Organization	Involvement Role	Limit	Process Status	Project Code	Process Category	Description	Start Moment	End
Bouwnr-1	Verkoop bouwnummer 1	Invantive - System		Taak Opvoerder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-1	Verkoop bouwnummer 1	Walraven	BRIS	Taak Houder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-1	Verkoop bouwnummer 1	Aeikema	AXA	Taak Melder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-114	Verkoop bouwnummer 114	Invantive - System		Taak Opvoerder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-114	Verkoop bouwnummer 114	Aeikema	AXA	Taak Melder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-114	Verkoop bouwnummer 114	Walraven	BRIS	Taak Houder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-2	Verkoop bouwnummer 2	Aeikema	AXA	Taak Melder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-2	Verkoop bouwnummer 2	Walraven	BRIS	Taak Houder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-2	Verkoop bouwnummer 2	Invantive - System		Taak Opvoerder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-201	Verkoop bouwnummer 201	Aeikema	AXA	Taak Melder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-201	Verkoop bouwnummer 201	Invantive - System		Taak Opvoerder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-201	Verkoop bouwnummer 201	Walraven	BRIS	Taak Houder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	
Bouwnr-3	Verkoop bouwnummer 3	Aeikema	AXA	Taak Melder		Gemeld	Stad	Verkoop vastgoed	Verkoopproces vastgoed	15-11-2012 16:56:34	

The meaning of the entry fields is:

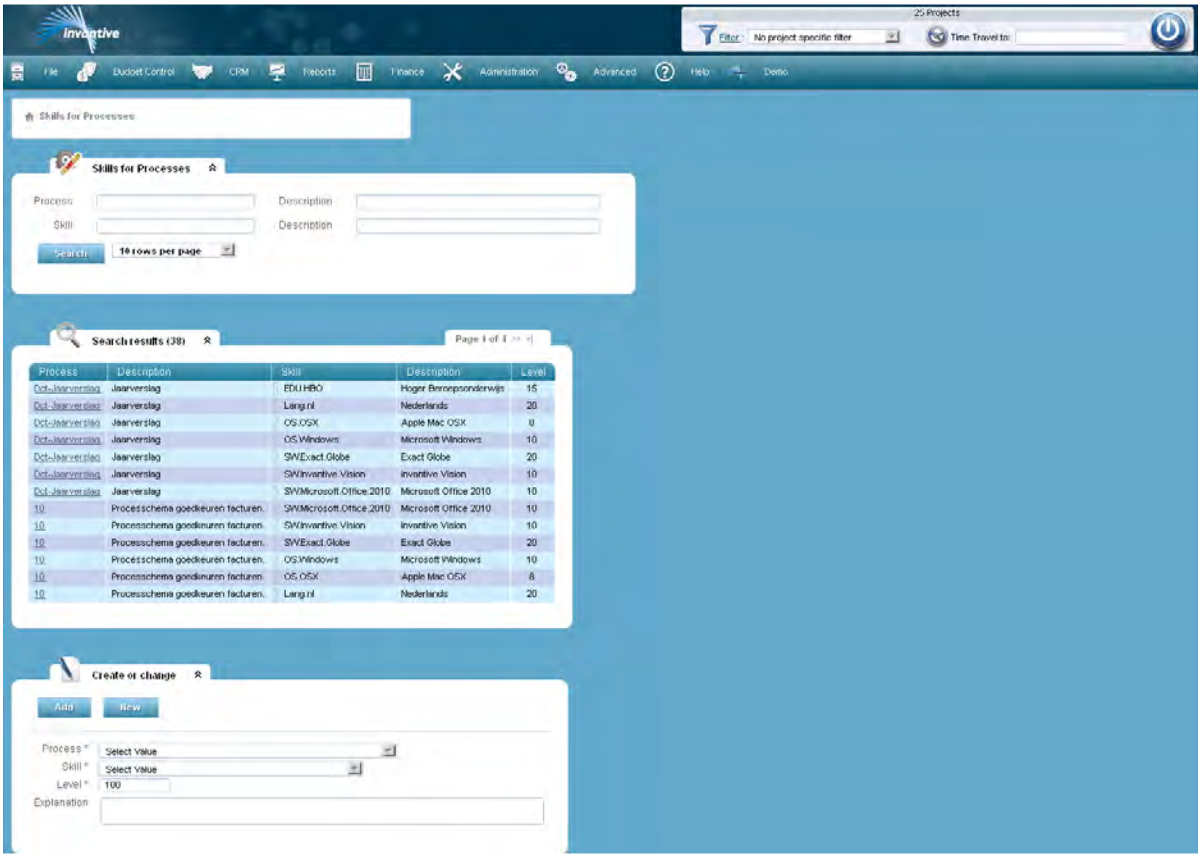
Process	Reference to a process as registered in Processes 53.
Person	Reference to a person as registered in Persons 97.
Involvement Role	The role the person performs in executing the process.
Limit	Deviating limit used for managing workflow transitions.
Project Code	The project code of the project where the process participation is registrated on.
Process Category	Reference to a process category as it is registrated in Process Categories.

The meaning of the other fields:

Description	A brief description of the objective or the problem of the process.

Skills for Processes

In this screen you can register and change skills for processes.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Skills for Processes
Skills for Processes
Search
10 rows per page
Search results (38)
Page 1 of 1
Create or change
Add
New

Process
Description
Skill
Description

Process	Description	Skill	Description	Level
Dct-Jaarverslag	Jaarverslag	EDU.HBO	Hoger Beroepsonderwijs	15
Dct-Jaarverslag	Jaarverslag	Lang.nl	Nederlands	20
Dct-Jaarverslag	Jaarverslag	OS.OSX	Apple Mac OSX	8
Dct-Jaarverslag	Jaarverslag	OS.Windows	Microsoft Windows	10
Dct-Jaarverslag	Jaarverslag	SW.Exact.Globe	Exact Globe	20
Dct-Jaarverslag	Jaarverslag	SW.Invantive.Vision	Invantive Vision	10
Dct-Jaarverslag	Jaarverslag	SW.Microsoft.Office.2010	Microsoft Office 2010	10
10	Processchema goedkeuren facturen.	SW.Microsoft.Office.2010	Microsoft Office 2010	10
10	Processchema goedkeuren facturen.	SW.Invantive.Vision	Invantive Vision	10
10	Processchema goedkeuren facturen.	SW.Exact.Globe	Exact Globe	20
10	Processchema goedkeuren facturen.	OS.Windows	Microsoft Windows	10
10	Processchema goedkeuren facturen.	OS.OSX	Apple Mac OSX	8
10	Processchema goedkeuren facturen.	Lang.nl	Nederlands	20

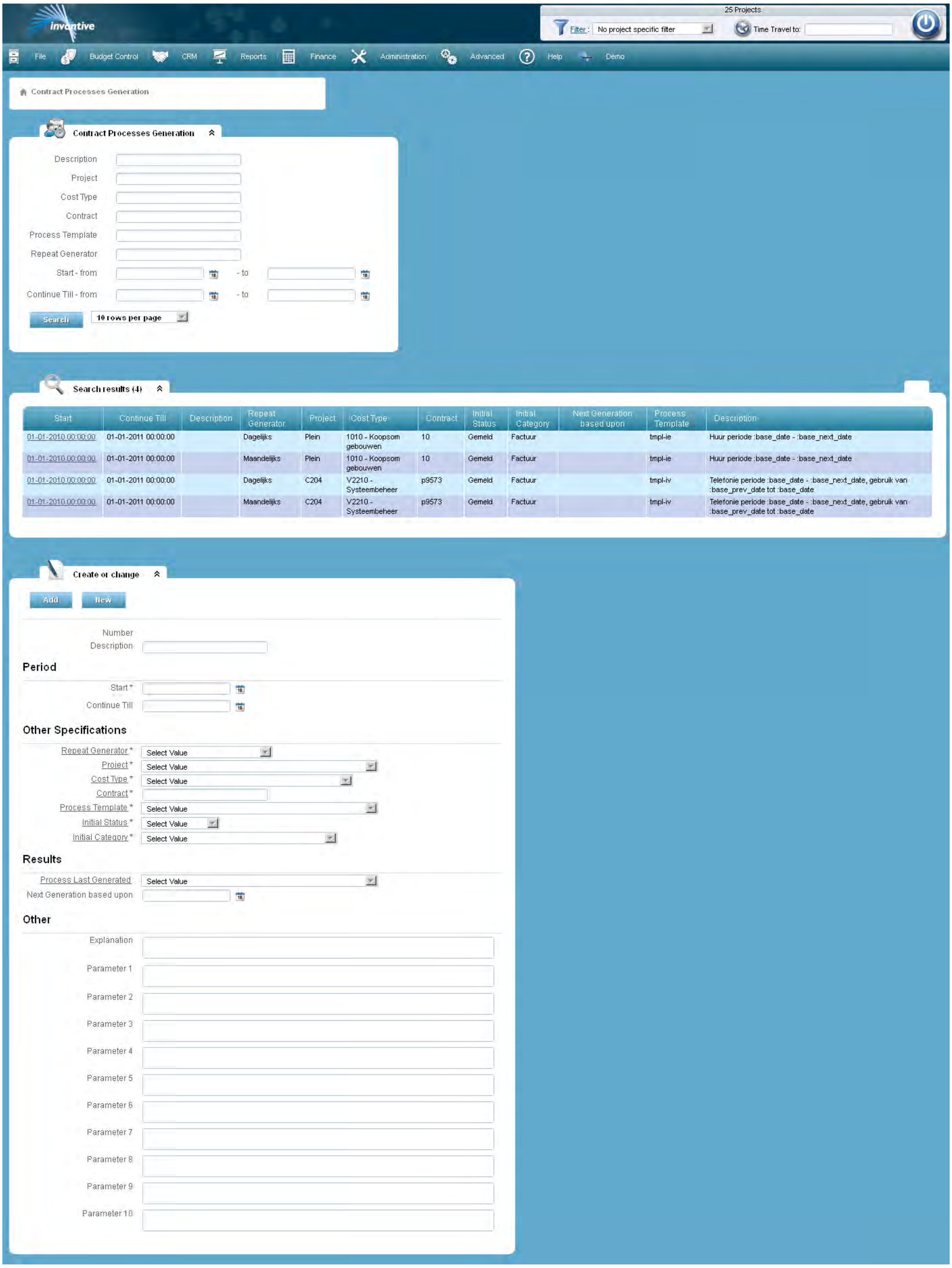
Process * Select Value
Skill * Select Value
Level * 100
Explanation

Process	Reference to a process as registered in Processes 53.
Skill	Reference to a skill as registered in Skills 200.
Level	Numeric value that indicates the w eight of this skill for this process in comparison w ith other skills that are needed for the execution of this process. It is not a required minimum level of a skill that a person should have for the execution of the process.

Contract Processes Generation

In this screen you can register contract process generations.

You can use this screen to indicate that a contract process must be generated on a specific basis or frequency. This is useful for follow-up support such as changing backup tapes, etc or the monthly billing payments for a certain period.


invantive
25 Projects
Filter : No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Contract Processes Generation
Contract Processes Generation
Description
Project
Cost Type
Contract
Process Template
Repeat Generator
Start - from
- to
Continue Till - from
- to
Search
10 rows per page
Search results (4)
Create or change
Add
New
Number
Description
Period
Start *
Continue Till
Other Specifications
Repeat Generator *
Project *
Cost Type *
Contract *
Process Template *
Initial Status *
Initial Category *
Select Value
Results
Process Last Generated
Next Generation based upon
Other
Explanation
Parameter 1
Parameter 2
Parameter 3
Parameter 4
Parameter 5
Parameter 6
Parameter 7
Parameter 8
Parameter 9
Parameter 10

Start	Continue Till	Description	Repeat Generator	Project	Cost Type	Contract	Initial Status	Initial Category	Next Generation based upon	Process Template	Description
01-01-2010 00:00:00	01-01-2011 00:00:00		Dagelijks	Plein	1010 - Koopsom gebouwen	10	Gemeld	Factuur		tmpl-ie	Huur periode :base_date - :base_next_date
01-01-2010 00:00:00	01-01-2011 00:00:00		Maandelijks	Plein	1010 - Koopsom gebouwen	10	Gemeld	Factuur		tmpl-ie	Huur periode :base_date - :base_next_date
01-01-2010 00:00:00	01-01-2011 00:00:00		Dagelijks	C204	V2210 - Systeembeheer	p9573	Gemeld	Factuur		tmpl-iv	Telefonie periode :base_date - :base_next_date, gebruik van :base_prev_date tot :base_date
01-01-2010 00:00:00	01-01-2011 00:00:00		Maandelijks	C204	V2210 - Systeembeheer	p9573	Gemeld	Factuur		tmpl-iv	Telefonie periode :base_date - :base_next_date, gebruik van :base_prev_date tot :base_date

The meaning of the entry fields is:

Start	The first date and time that a process is generated.
Continue Till	The first date and time w here no processes are generated anymore.
Repeat Generator	Reference to a repeat generator as registered in Repeat Generators 331.
Project	Reference to a project as registered in Projects 124.
Cost Type	Reference to a cost category as registered in Cost Category 189.

Contract	Reference to a contract as registered in Contracts 150.
Process Template	Reference to a process as registered in Processes 53.
Process Last Generated	Reference to the last process produced as registered in Processes 53.
Initial Status	Reference to an initial process status as registered in Process Statuses 167.
Initial Category	Reference to an initial process category for the new processes as registered in Process Categories 169.
Next Generation based upon	Date and time when a new process will be generated.

Note that the generation of processes always happens when the time for which the process is to be created has elapsed. Generating processes is independent of the system time and continue until processes are generated for the entire period as specified under 'Start' and 'Continue until'.

The meaning of the other fields:

Number	The unique number with which the contract process generation is identified.

Variables

In the description of the process template and the explanation of the process units you can use variables. The variables are replaced with the current valid values when the process is generated. You can use the following variables:

- :pjt_code: project code.
- :kbg_code: cost category code.
- :ctt_volgnummer: contract code.
- :hgr_code: repeat generator code.
- :ctg_omschrijving: description of the contract process generator.
- :ctg_toelichting: explanation of the contract process generator.
- :base_datetime: the content of the field 'Next Generation Based on'. If this field has no value then the Start date will be used.
- :base_date: the previous variable without the time.
- :base_next_datetime: a period after the :base_datetime.
- :base_next_date: the previous variable without the time.
- :base_next_next_datetime: two periods after the :base_datetime.
- :base_next_next_date: the previous variable without the time.
- :base_prev_datetime: a period earlier than :base_datetime.
- :base_prev_date: the previous variable without the time.
- :base_prev_prev_datetime: two periods earlier than :base_datetime.
- :base_prev_prev_date: the previous variable without the time.

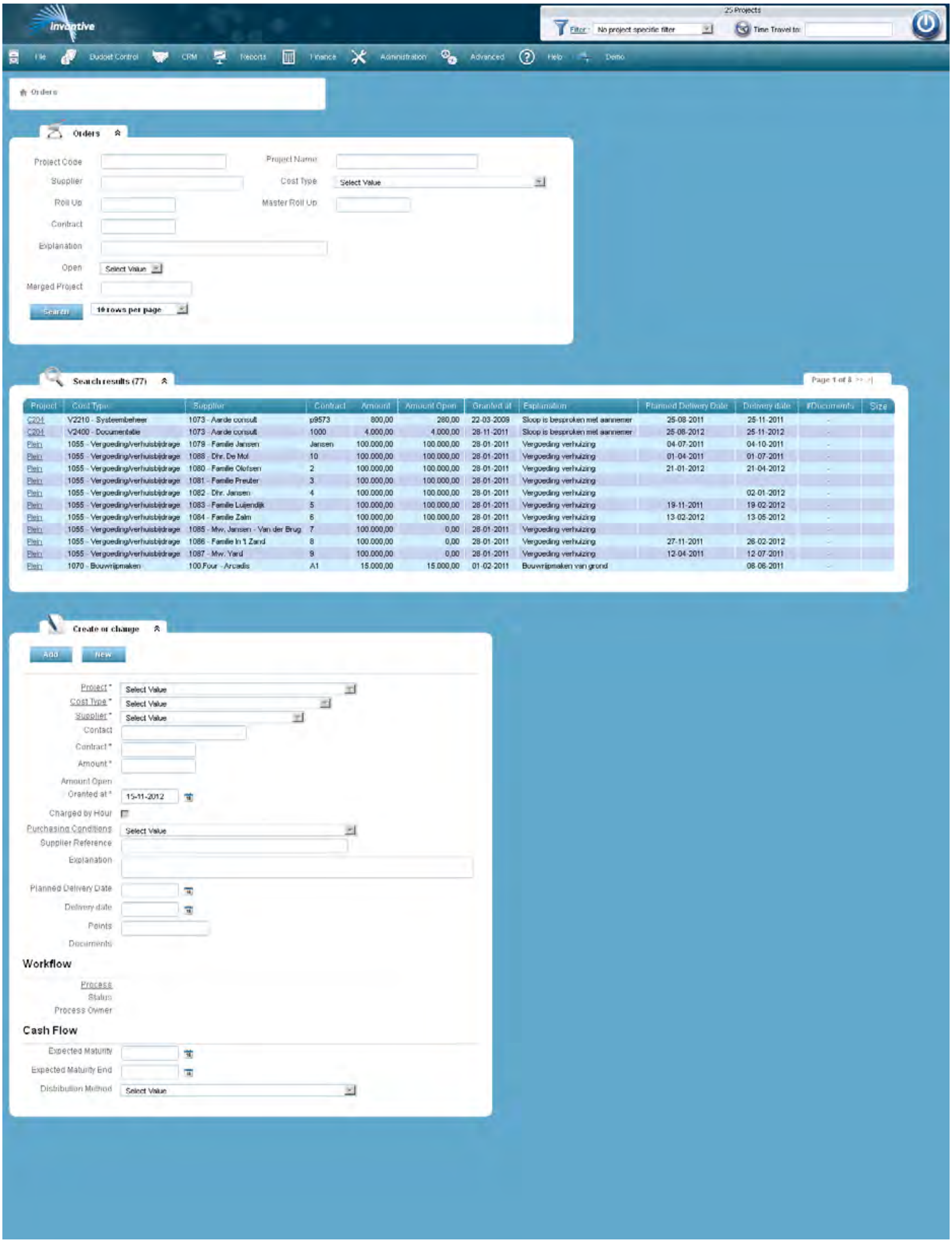
1.2.3.3 Checking

Enter text here.

Orders

In this form you can register and change orders.

An order is an obligation that the project developer agrees upon with a supplier for the delivery of goods and/or services. The order does not directly lead to an invoice, but eventually it will lead to an invoice.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Orders
Orders
Project Code
Project Name
Supplier
Cost Type
Select Value
Roll Up
Master Roll Up
Contract
Explanation
Open
Select Value
Merged Project
Search
10 rows per page
Search results (77)
Page 1 of 8 >> >|
Create or change
Add
New
Project *
Select Value
Cost Type *
Select Value
Supplier *
Select Value
Contact
Contract *
Amount *
Amount Open
Granted at *
15-11-2012
Charged by Hour
Purchasing Conditions
Select Value
Supplier Reference
Explanation
Planned Delivery Date
Delivery date
Points
Documents
Workflow
Process
Status
Process Owner
Cash Flow
Expected Maturity
Expected Maturity End
Distribution Method
Select Value

Project	Cost Type	Supplier	Contract	Amount	Amount Open	Granted at	Explanation	Planned Delivery Date	Delivery date	#Documents	Size
C204	V2210 - Systeembeheer	1073 - Aarde consult	p9573	800,00	280,00	22-03-2009	Sloop is besproken met aannemer	25-08-2011	25-11-2011	-	
C204	V2400 - Documentatie	1073 - Aarde consult	1000	4.000,00	4.000,00	28-11-2011	Sloop is besproken met aannemer	25-08-2012	25-11-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1079 - Familie Jansen	Jansen	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	04-07-2011	04-10-2011	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1088 - Dhr. De Mol	10	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	01-04-2011	01-07-2011	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1080 - Familie Olofsen	2	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	21-01-2012	21-04-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1081 - Familie Preuter	3	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing			-	
Plein	1055 - Vergoeding/verhuisbijdrage	1082 - Dhr. Jansen	4	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing		02-01-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1083 - Familie Luijendijk	5	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	19-11-2011	19-02-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1084 - Familie Zalm	6	100.000,00	100.000,00	28-01-2011	Vergoeding verhuizing	13-02-2012	13-05-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1085 - Mw. Jansen - Van der Brug	7	100.000,00	0,00	28-01-2011	Vergoeding verhuizing			-	
Plein	1055 - Vergoeding/verhuisbijdrage	1086 - Familie In 't Zand	8	100.000,00	0,00	28-01-2011	Vergoeding verhuizing	27-11-2011	28-02-2012	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1087 - Mw. Yard	9	100.000,00	0,00	28-01-2011	Vergoeding verhuizing	12-04-2011	12-07-2011	-	
Plein	1070 - Bouwrijpmaken	100.Four - Arcadis	A1	15.000,00	15.000,00	01-02-2011	Bouwrijpmaken van grond		08-06-2011	-	

The meaning of the entry fields is:

Project	The project of which the order is part of.
Cost Type	The cost category on which the order is registered. Only cost categories can be chosen from the master roll up of the type ‘Costs’.
Supplier	The supplier who received the order to supply goods and/or services. Only organizations that have been published as a contractor are listed. The list of suppliers used when entering is restricted to suppliers who have a code that is allowed to be used on a project in the filter. With a pattern you can manage for each project for which suppliers orders may be registered.
Contact	The natural person acting as representative.
Contract	The contract for that particular category of orders and the possible related invoices. Two orders cannot share the same contract on one budget.
Amount	The agreed amount of the size of the order.
Amount Open	The amount of the order of which no invoices are received yet.
Granted at	The date on which the order is granted.
Charged by Hour	The activities will be charged by hour if selected.
Purchasing Conditions	Here you can choose the purchasing conditions that apply to the order.
Supplier Reference	A unique feature by which the contract is known to the supplier.
Explanation	An informative explanation such as the sort of work.
Planned Delivery Date	Date at which the delivery of goods or services is planned.
Delivery date	Date at which the goods or services is delivered.
Points	Amount of points awarded for this contract. The point system is a reward system.
Documents	Linked documents, see Linking Documents 29.
Expected Maturity	The date the cash flow for this contract is expected to start, see Cash Flow Projections 89
Expected Maturity End	The date the cash flow for this contract is expected to finish. The maturity date is only relevant if the cash flow projection method needs it, see Cash Flow Projections 89.
Distribution Method	The method used to distribute the cash flow of the order over time based on expected maturity and expected maturity end date, see Cash Flow Projections 89.

Notice: At the time of recording, the code of the chosen supplier has to match the filter for contractors as defined in the project.

The meaning of the other fields:

Process	If a process is linked to the command, it will be displayed here.
Status	Reference to the process status as registered in the screen Processes 53.
Process Holder	Reference to a process owner as registered in the screen Processes 53.

The meaning of the action buttons:

- Invoice Lines: opens a window with the invoice lines of this order.

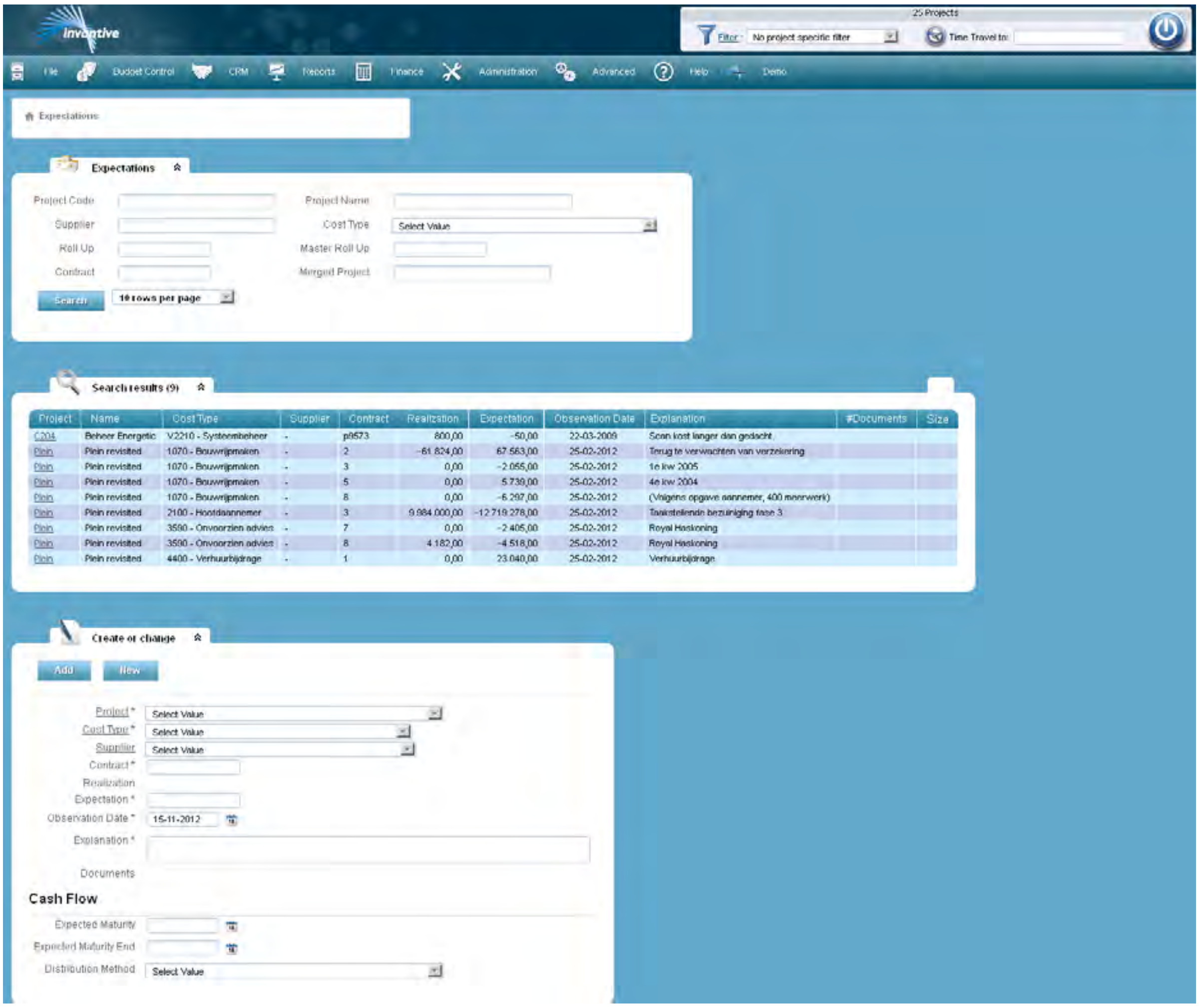
Expectations

In this screen you can register and change expectations.

An expectation is a cost still to arrive and which is not included in the current prognosis. You can use the expectation for comparison with the prognosis and to create additional revenues which are necessary if there is a gap , regardless of the already placed orders or received invoices.

Internally, every expectation is converted to a Latest Estimation 67.

Normally you would register an expectation if you expect a claim, an unexpected setback or a non-legally agreed funding (for instance from governments).



Expectations

Project Code		Project Name	
Supplier		Cost Type	Select Value
Roll Up		Master Roll Up	
Contract		Merged Project	

Search   10 rows per page

Search results (9)

Project	Name	Cost Type	Supplier	Contract	Realization	Expectation	Observation Date	Explanation	#Documents	Size
C204	Beheer Energetic	V2210 - Systeembeheer	-	p9573	800,00	-50,00	22-03-2009	Scan kost langer dan gedacht		
Plein	Plein revisited	1070 - Bouwrijpmaken	-	2	-61 824,00	67 563,00	25-02-2012	Terug te verwachten van verzekering		
Plein	Plein revisited	1070 - Bouwrijpmaken	-	3	0,00	-2 055,00	25-02-2012	1e kw 2005		
Plein	Plein revisited	1070 - Bouwrijpmaken	-	5	0,00	5 739,00	25-02-2012	4e kw 2004		
Plein	Plein revisited	1070 - Bouwrijpmaken	-	8	0,00	-6 297,00	25-02-2012	(Volgens opgave aannemer, 400 meerwerk)		
Plein	Plein revisited	2100 - Hoofdaannemer	-	3	9 984 000,00	-12 719 278,00	25-02-2012	Taakstellende bezuiniging fase 3		
Plein	Plein revisited	3590 - Onvoorzien advies	-	7	0,00	-2 405,00	25-02-2012	Royal Haskoning		
Plein	Plein revisited	3590 - Onvoorzien advies	-	8	4 182,00	-4 518,00	25-02-2012	Royal Haskoning		
Plein	Plein revisited	4400 - Verhuurbijdrage	-	1	0,00	23 040,00	25-02-2012	Verhuurbijdrage		

Create or change

Add   New

Project *	Select Value
Cost Type *	Select Value
Supplier	Select Value
Contract *	
Realization	
Expectation *	
Observation Date *	15-11-2012
Explanation *	
Documents	

Cash Flow

Expected Maturity	
Expected Maturity End	
Distribution Method	Select Value

The meaning of the entry fields is:

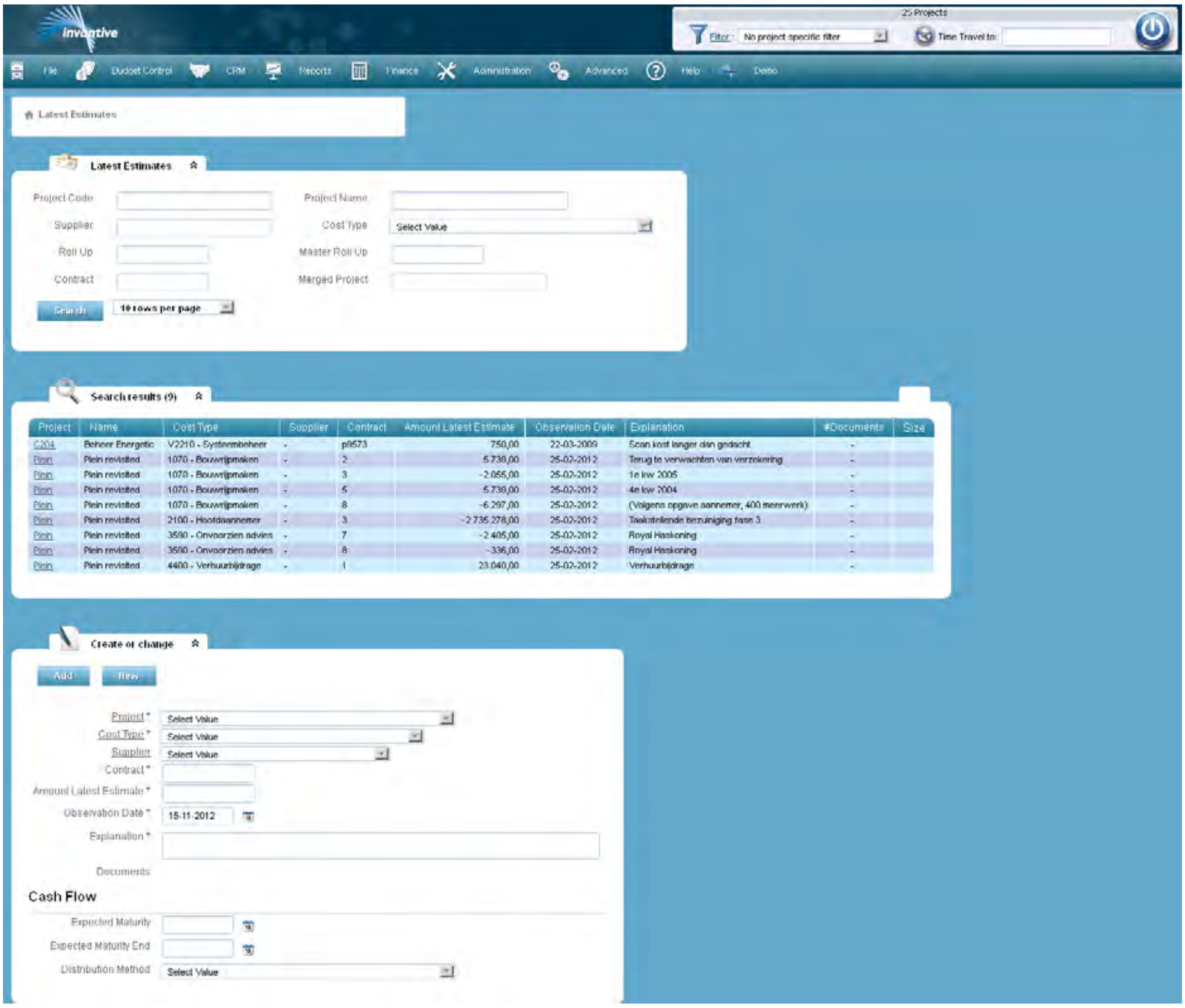
Project	The project which the expectation is part of .
Cost Type	The cost category where the expectation will be registered. Only cost categories can be chosen from the master roll up of the type 'Costs'.
Organization	The organization which as a supplier causes the cost.
Contract	The contract for that particular category of costs and the possibly related invoices.. Two expectations cannot share the same contract on one budget.
Realization	The actual costs to date.
Expectation	The size of the expectation.
Observation Date	The date on which the expectation is determined.
Explanation	An informative explanation such as the reason for the expected budget excession.
Documents	Linked documents, see Linking Documents 29.
Expected Maturity	The date the cash flow for this expectation is expected to begin.
Expected Maturity End	The date the cash flow for this expectation is expected to end. The maturity date is only relevant if the cash flow projection method needs it.
Distribution Method	The method used to distribute the cash flow of the expectation over time based on expected maturity and expected maturity date.

Latest estimations

In this form you can register and change latest estimates.

A latest estimate is a cost driver still to arrive which is included or not included in the budget and is not being covered by an order. A latest estimate can be used to register the expected minimum budget spendings within a contract, regardless of already placed orders or received invoices.

Normally you will register a latest estimate if you expect a claim, an unexpected setback or a non-legally agreed funding (for instance from governments).


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Latest Estimates
Latest Estimates
Project Code
Project Name
Supplier
Cost Type
Select Value
Roll Up
Master Roll Up
Contract
Merged Project
Search
10 rows per page
Search results (9)
Create or change
Add
New

Project	Name	Cost Type	Supplier	Contract	Amount Latest Estimate	Observation Date	Explanation	#Documents	Size
C204	Beheer Energetic	V2210 - Systeembeheer	-	p9573	750,00	22-03-2009	Scan kost langer dan gedacht	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	-	2	5.739,00	25-02-2012	Terug te verwachten van verzekering	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	-	3	-2.055,00	25-02-2012	1e kw 2005	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	-	5	5.739,00	25-02-2012	4e kw 2004	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	-	8	-6.297,00	25-02-2012	(Volgens opgave aannemer, 400 meerwerk)	-	
Plein	Plein revisited	2100 - Hoofdaannemer	-	3	-2.735.278,00	25-02-2012	Taakstellende bezuiniging fase 3	-	
Plein	Plein revisited	3500 - Onvoorzien advies	-	7	-2.405,00	25-02-2012	Royal Haskoning	-	
Plein	Plein revisited	3500 - Onvoorzien advies	-	8	-336,00	25-02-2012	Royal Haskoning	-	
Plein	Plein revisited	4400 - Verhuurbijdrage	-	1	23.040,00	25-02-2012	Verhuurbijdrage	-	

Project * Select Value
Cost Type * Select Value
Supplier Select Value
Contract *
Amount Latest Estimate *
Observation Date * 15-11-2012
Explanation *
Documents

Cash Flow

Expected Maturity
Expected Maturity End
Distribution Method Select Value

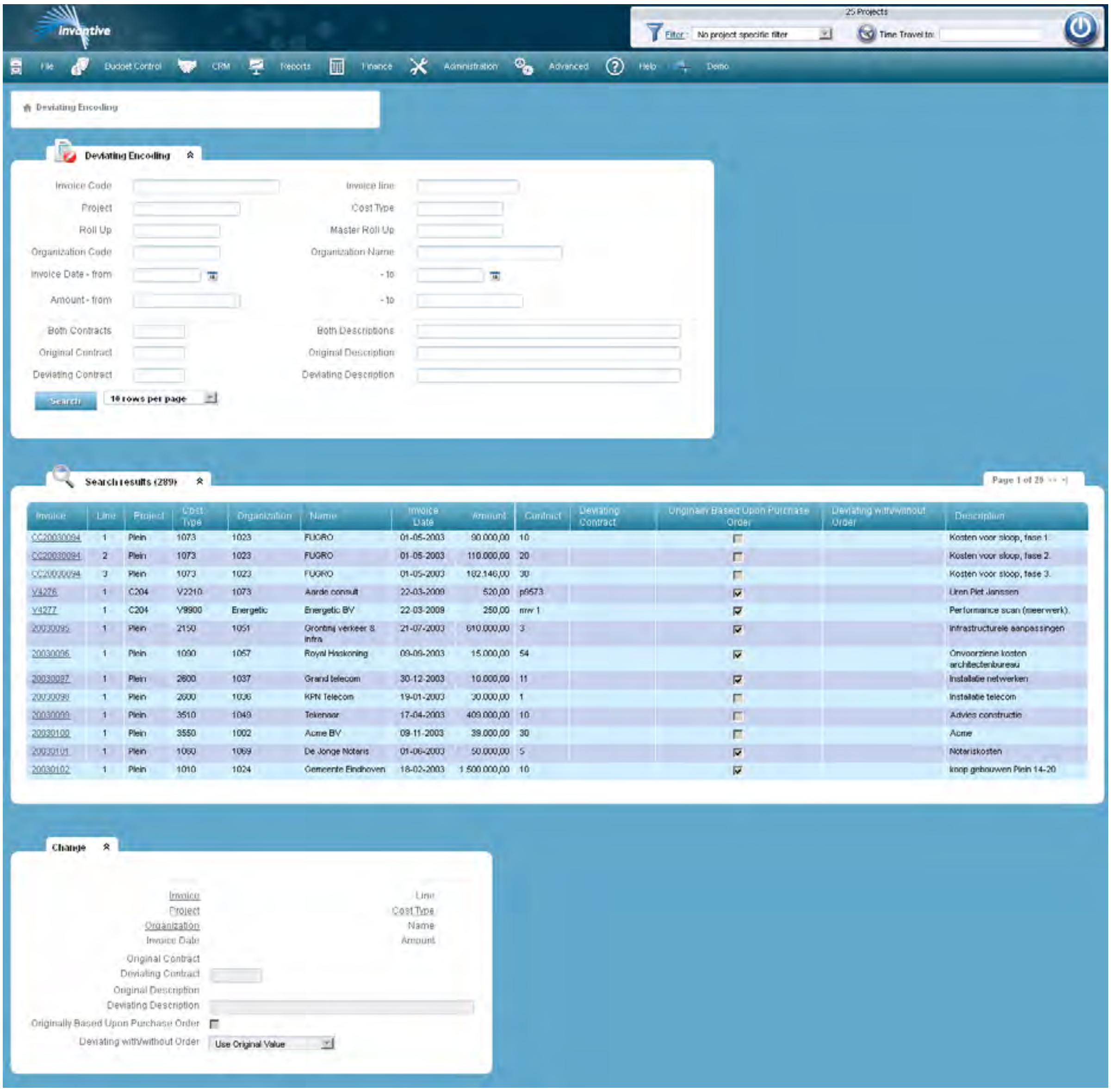
The meaning of the entry fields is:

Project	The project which the latest estimate is part of.
Cost Type	The cost category on which the latest estimate is registered. Only cost categories can be chosen from the master roll up of the type ‘Costs’.
Supplier	The supplier causing the cost driver.
Contract	The contract for that particular category of costs and the possibly related invoices.. The two latest estimates cannot share the same contract.
Amount Latest Estimate	The amount of the latest estimate.
Observation Date	The date at which the latest estimate is determined by the project developer.
Explanation	An informative explanation such as the reason for the expected budget excession.
Documents	Linked documents, see Linking Documents 29.
Expected Maturity	The date the cash flow for this latest estimate is expected to begin.
Expected Maturity End	The date the cash flow for this latest estimate is expected to end. The maturity date is only relevant if the cash flow projection method needs it.
Distribution Method	The method used to distribute the cash flow of the latest estimate over time based on expected maturity and expected maturity date.

Deviating Encoding

In this screen you can subsequently assign invoice lines to another contract within the original cost category, and also modify the description, with or without modifying the assignment.

You can use this screen if the original coding of the invoice is not correct. All reports will use a possible deviating code as if being the original code, but in the screens you will still recognize the original code.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Deviating Encoding
Deviating Encoding
Invoice Code
Invoice line
Project
Cost Type
Roll Up
Master Roll Up
Organization Code
Organization Name
Invoice Date - from
- to
Amount - from
- to
Both Contracts
Both Descriptions
Original Contract
Original Description
Deviating Contract
Deviating Description
Search
10 rows per page
Search results (289)
Page 1 of 29
Change
Invoice
Line
Project
Cost Type
Organization
Name
Invoice Date
Amount
Original Contract
Deviating Contract
Original Description
Deviating Description
Originally Based Upon Purchase Order
Deviating with/without Order
Use Original Value

Invoice	Line	Project	Cost Type	Organization	Name	Invoice Date	Amount	Contract	Deviating Contract	Originally Based Upon Purchase Order	Deviating with/without Order	Description
CC20030094	1	Plein	1073	1023	FUGRO	01-05-2003	90.000,00	10		☐		Kosten voor sloop, fase 1.
CC20030094	2	Plein	1073	1023	FUGRO	01-05-2003	110.000,00	20		☐		Kosten voor sloop, fase 2.
CC20030094	3	Plein	1073	1023	FUGRO	01-05-2003	182.146,00	30		☐		Kosten voor sloop, fase 3.
V4276	1	C204	V2210	1073	Aarde consult	22-03-2009	520,00	p9573		☑		Uren Piet Janssen
V4277	1	C204	V9900	Energetic	Energetic BV	22-03-2009	250,00	mw 1		☑		Performance scan (meerwerk).
20030095	1	Plein	2150	1051	Grontmij verkeer & infra	21-07-2003	610.000,00	3		☑		Infrastructurele aanpassingen
20030096	1	Plein	1090	1057	Royal Haskoning	09-09-2003	15.000,00	54		☑		Onvoorziene kosten architectenbureau
20030097	1	Plein	2600	1037	Grand telecom	30-12-2003	10.000,00	11		☑		Installatie netwerken
20030098	1	Plein	2600	1036	KPN Telecom	19-01-2003	30.000,00	1		☐		Installatie telecom
20030099	1	Plein	3510	1049	Tekenaar	17-04-2003	409.000,00	10		☐		Advies constructie
20030100	1	Plein	3550	1002	Acme BV	09-11-2003	39.000,00	30		☐		Acme
20030101	1	Plein	1060	1069	De Jonge Notaris	01-06-2003	50.000,00	5		☑		Notariskosten
20030102	1	Plein	1010	1024	Gemeente Eindhoven	18-02-2003	1.500.000,00	10		☑		koop gebouwen Plein 14-20

The meaning of the entry fields is:

Deviating Contract	The desired contract of the invoice line. If you want to use the original contract, make it blank.
Deviating Description	The desired description of the invoice line. If you want to use the original description, make it blank.
Deviating With/without Job	The desired with/without order coding of the invoice line. If you want to use the original with/without order, select ‘Use Original Value’.

Revenues

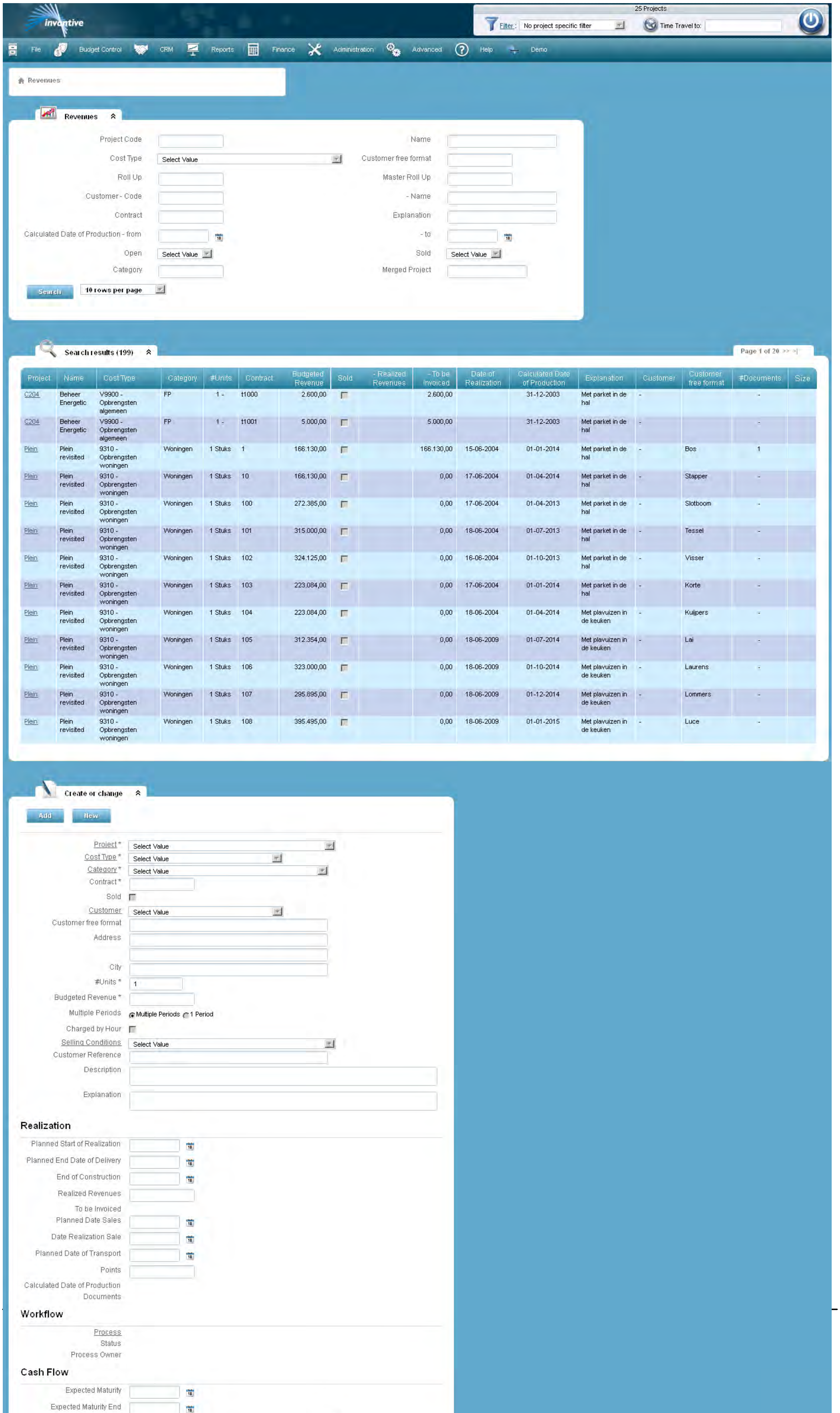
In this form you can register and change revenues.

A revenue is a unit (parking lot, house, store or **office** space) which can be sold or rented as part of a project to a client. Any additional revenues such as contributions from the government are sometimes registered as negative costs.

During the determination of the project the revenues are included in the budget to cover the costs and to reach a positive project result.

The revenues are registered per unit number against an expected revenue. For example, if a project will produce fifteen houses, then fifteen revenues will be registered. In an early stage it is sensible to combine similar revenues, for example, five corner houses with a total value of EUR 1,400,000.

The actual revenue (sales price or value at resale to owner in rental state) is added on the moment of rent or sale of a unit.



Revenues

Project Code

Name

Cost Type: Select Value

Customer free format

Roll Up

Master Roll Up

Customer - Code

- Name

Contract

Explanation

Calculated Date of Production - from

- to

Open: Select Value

Sold: Select Value

Category

Merged Project

10 rows per page

Search results (199)

Page 1 of 20 >> >|

Project	Name	Cost Type	Category	#Units	Contract	Budgeted Revenue	Sold	- Realized Revenues	- To be Invoiced	Date of Realization	Calculated Date of Production	Explanation	Customer	Customer free format	#Documents	Size
C204	Beheer Energetic	V9900 - Opbrengsten algemeen	FP	1 -	t1000	2.600,00	☐		2.600,00		31-12-2003	Met parket in de hal	-		-	
C204	Beheer Energetic	V9900 - Opbrengsten algemeen	FP	1 -	t1001	5.000,00	☐		5.000,00		31-12-2003	Met parket in de hal	-		-	
Plein	Plein revisited	9310 - Opbrengsten woningen	Woningen	1 Stuks	1	166.130,00	☐		166.130,00	15-06-2004	01-01-2014	Met parket in de hal	-	Bos	1	
Plein	Plein revisited	9310 - Opbrengsten woningen	Woningen	1 Stuks	10	166.130,00	☐		0,00	17-06-2004	01-04-2014	Met parket in de hal	-	Stapper	-	
Plein	Plein revisited	9310 - Opbrengsten woningen	Woningen	1 Stuks	100	272.385,00	☐		0,00	17-06-2004	01-04-2013	Met parket in de hal	-	Slotboom	-	
Plein	Plein revisited	9310 - Opbrengsten woningen	Woningen	1 Stuks	101	315.000,00	☐		0,00	18-06-2004	01-07-2013	Met parket in de hal	-	Tessel	-	
Plein	Plein revisited	9310 - Opbrengsten woningen	Woningen	1 Stuks	102	324.125,00	☐		0,00	16-06-2004	01-10-2013	Met parket in de hal	-	Visser	-	
Plein	Plein revisited	9310 - Opbrengsten woningen	Woningen	1 Stuks	103	223.084,00	☐		0,00	17-06-2004	01-01-2014	Met parket in de hal	-	Korte	-	
Plein	Plein revisited	9310 - Opbrengsten woningen	Woningen	1 Stuks	104	223.084,00	☐		0,00	18-06-2004	01-04-2014	Met plavuizen in de keuken	-	Kuijpers	-	
Plein	Plein revisited	9310 - Opbrengsten woningen	Woningen	1 Stuks	105	312.354,00	☐		0,00	18-06-2009	01-07-2014	Met plavuizen in de keuken	-	Lai	-	
Plein	Plein revisited	9310 - Opbrengsten woningen	Woningen	1 Stuks	106	323.000,00	☐		0,00	18-06-2009	01-10-2014	Met plavuizen in de keuken	-	Laurens	-	
Plein	Plein revisited	9310 - Opbrengsten woningen	Woningen	1 Stuks	107	295.895,00	☐		0,00	18-06-2009	01-12-2014	Met plavuizen in de keuken	-	Lommers	-	
Plein	Plein revisited	9310 - Opbrengsten woningen	Woningen	1 Stuks	108	395.495,00	☐		0,00	18-06-2009	01-01-2015	Met plavuizen in de keuken	-	Luce	-	

Create or change

Project *: Select Value

Cost Type *: Select Value

Category *: Select Value

Contract *

Sold ☐

Customer: Select Value

Customer free format

Address

City

#Units *: 1

Budgeted Revenue *

Multiple Periods: ● Multiple Periods ○ 1 Period

Charged by Hour ☐

Selling Conditions: Select Value

Customer Reference

Description

Explanation

Realization

Planned Start of Realization

Planned End Date of Delivery

End of Construction

Realized Revenues

To be Invoiced

Planned Date Sales

Date Realization Sale

Planned Date of Transport

Points

Calculated Date of Production

Documents

Workflow

Process

Status

Process Owner

Cash Flow

Expected Maturity

Expected Maturity End

The meaning of the entry fields is:

Project	The project of which the revenue is part of.
Cost Type	The cost category on which the revenue is registered. Only cost categories can be chosen from the master roll up of the type 'Revenues'.
Category	The type of revenue. See also Revenue Types 176.
Contract	The contract for the grouping of a revenue. Two revenues cannot share the same contract on one budget.
Sold	The revenue has been saled if checked.
Customer	Reference to the buyer of the revenue as registered in Organizations 93.
Customer free format	Reference to a customer as free format.
Address	The address where the revenues are earned.
City	The place where the revenues are realized.
#Units	The number of units, expressed in units that belong to the class. Houses are generally expressed in 'Numbers', while 'Commercial Space' is expressed in 'm2'.
Budgeted Result	The budgeted result of the unit.
Multiple Periods	An indicator if more than one invoice will be sent in order to charge the agreed revenue. In case you choose for one period and the field 'Realized Revenues' is not filled in or differently, the first invoice of this revenue will be treated as the realized revenue.
Charged by Hour	The activities will be charged by hour if selected.
Customer Reference	A reference/characteristic that is specified by the customer.
Description	A description of the products, activity or situation where revenues relate to.
Explanation	An informative explanation such as the expected start or duration of the rental period.
Planned Start Date	The planned start of realization.
Planned End Date of Handover	The planned date of handover of the units.
End of Construction	The actual end date of construction of the units.
Realized Revenues	The realized revenue per unit. This is filled out as soon as the contractual agreement is signed. Note that reports may show a different contract revenue as entered here if '1 period' is selected in the field 'Multiple Periods' and an invoice with contract is sent. In this case the reports will always show the total invoice amount instead of the here entered realized revenues.
Planned Date Sales	The expected date that the customer will sign the sales contract.
Date Realization Sale	The date on which the contractual agreement with the construction company is signed.
Planned Date of Transport	The expected date when the product will be transferred to the buyer.
Buyer	The name of the buyer.
Points	The number of points awared for the commercial objective of the project. This is normally used to determine bonuses.
Documents	Linked documents, see Linking Documents 29.
Expected Maturity	The date the cash flow for revenue is expected to begin.
Expected Maturity End	The date the cash flow for this revenue is expected to finish. The maturity date is only relevant if the cash flow projection method needs it.
Distribution Method	The method used to distribute the cash flow of the revenue over time based on expected maturity and expected maturity date.

The meaning of the other fields:

Project Code	A unique code for the project.
Name	The name of the project.
Roll Up	The roll up code.
Master Roll Up	The name of the master roll up to which the roll up (a roll up is a bundle of individual cost categories) belongs.
Calculated Date of Production	The calculated date of production on which the units are counted as production. The calculation is as follows: • Date end of construction units if available. • Date end of construction if available. • Planned date end of construction units if available.

	• Planned date end of construction if available. • Else unknown.
Open	Indicator whether the bill is paid.
Category	Is a grouping of revenues.
Merged Project	The name of the main project to which the revenue belongs.
To be Invoiced	Contains the part of the revenue that still needs to be invoiced. Automatically calculated by the system.

1.2.3.4 Budget

Enter text here.

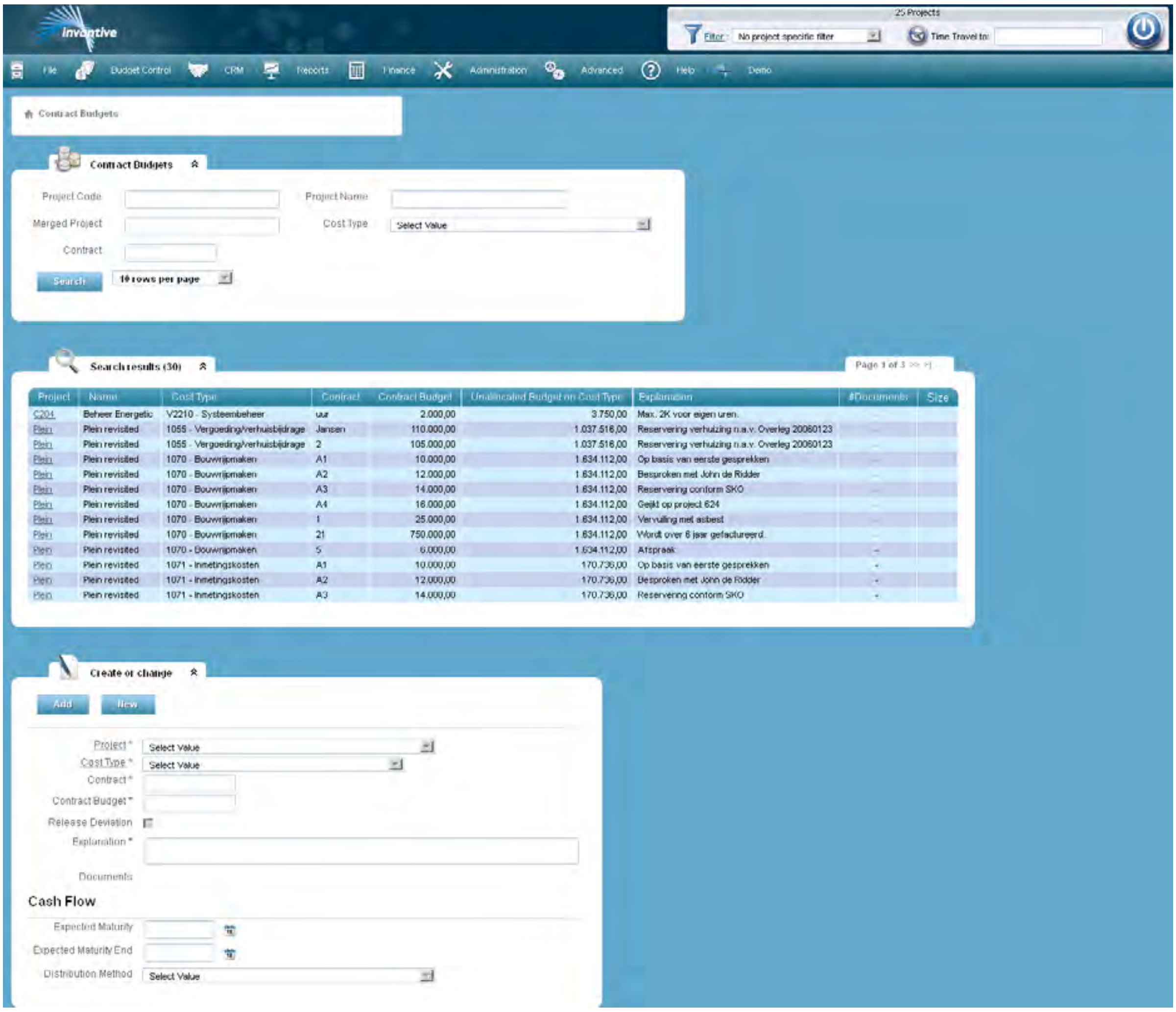
Contract Budgets

In this screen you can register and change Contract Budgets.

A contract budget is a specification of the total available budget for a cost type. You can allocate different budgets to different contracts within a cost category and in this way you will be able, as early as possible, to examine budget exceeding.

Contract budgets can only be registered for cost types from the master roll up category ‘Costs’. You can't use contract budgets for ‘Revenues’ and ‘Results’.

For example: you have a budget of EUR 500,000 for the purchase of five to be demolished homes. Per home you have created a contract in the cost category ‘Purchase houses’, with for each home a contract budget of EUR 100.000.. After the negotiations with the first resident you know that you need to pay EUR 120,000 for this house. Therefore, you will determine an order of EUR 120,000 already. Although negotiations with the other residents have not been completed, you can already see a budget exceeding of EUR 20,000.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Contract Budgets
Contract Budgets
Project Code
Project Name
Merged Project
Cost Type
Select Value
Contract
Search
10 rows per page
Search results (30)
Page 1 of 3
Create or change
Add
New
Project *
Select Value
Cost Type *
Select Value
Contract *
Contract Budget *
Release Deviation
Explanation *
Documents
Cash Flow
Expected Maturity
Expected Maturity End
Distribution Method
Select Value

Project	Name	Cost Type	Contract	Contract Budget	Unallocated Budget on Cost Type	Explanation	#Documents	Size
C204	Beheer Energetic	V2210 - Systeembeheer	uur	2.000,00	3.750,00	Max. 2K voor eigen uren.		
Plein	Plein revisited	1055 - Vergoeding/verhuisbijdrage	Jansen	110.000,00	1.037.516,00	Reservering verhuizing n.a.v. Overleg 20060123	-	
Plein	Plein revisited	1055 - Vergoeding/verhuisbijdrage	2	105.000,00	1.037.516,00	Reservering verhuizing n.a.v. Overleg 20060123	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	A1	10.000,00	1.634.112,00	Op basis van eerste gesprekken	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	A2	12.000,00	1.634.112,00	Besproken met John de Ridder	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	A3	14.000,00	1.634.112,00	Reservering conform SKO	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	A4	16.000,00	1.634.112,00	Geijkt op project 624	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	1	25.000,00	1.634.112,00	Vervuiling met asbest	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	21	750.000,00	1.634.112,00	Wordt over 6 jaar gefactureerd.	-	
Plein	Plein revisited	1070 - Bouwrijpmaken	5	6.000,00	1.634.112,00	Afspraak	-	
Plein	Plein revisited	1071 - Inmetingskosten	A1	10.000,00	170.736,00	Op basis van eerste gesprekken	-	
Plein	Plein revisited	1071 - Inmetingskosten	A2	12.000,00	170.736,00	Besproken met John de Ridder	-	
Plein	Plein revisited	1071 - Inmetingskosten	A3	14.000,00	170.736,00	Reservering conform SKO	-	

The meaning of the entry fields is:

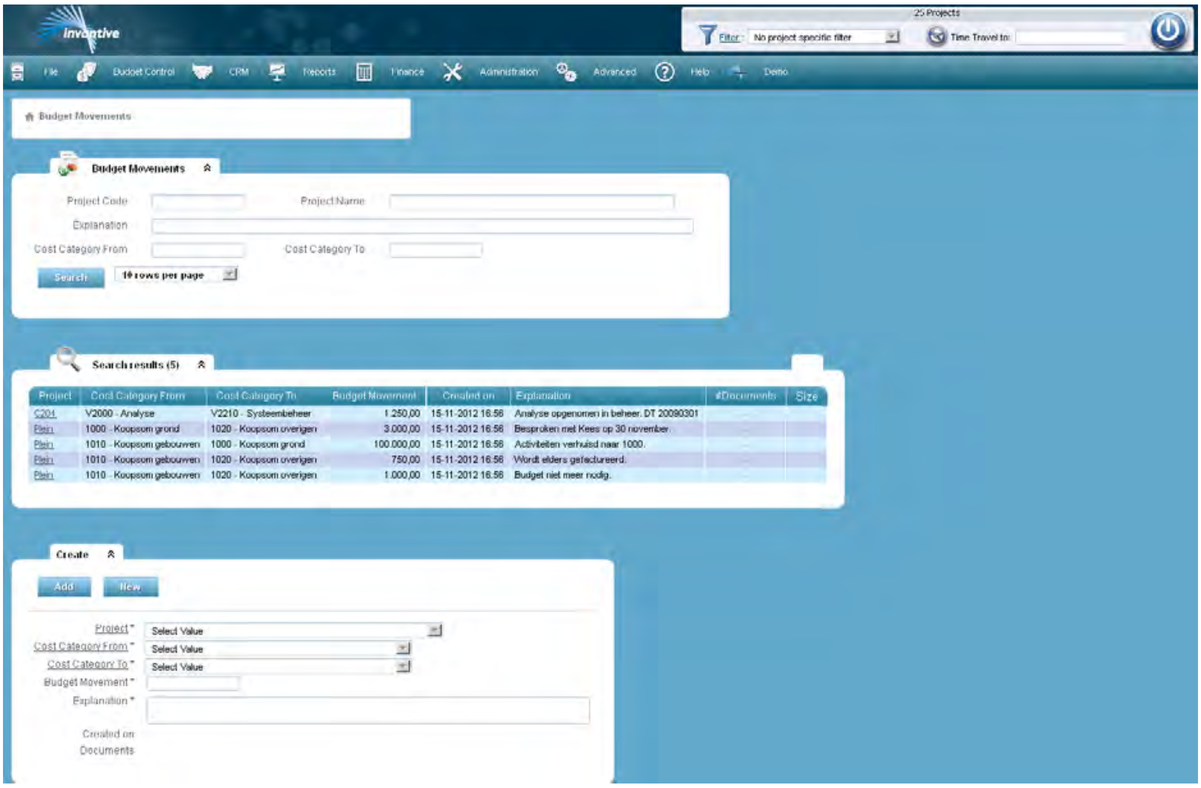
Project	The project of which the contract budget is part of.
Cost Type	The cost category at which the contract budget is registered. Only cost categories can be chosen from the master roll up of the type 'Costs'.
Contract	The contract where the contract budget is related to.
Contract Budget	The specific amount for this contract.
Release Deviation	If checked, any budget surplus on this contract budget is used to offset deficits elsewhere.
Explanation	An informative explanation such as the reason for the creation of a specific contract budget.
Documents	Linked documents, see Linking Documents 29.
Expected Maturity	The date the cash flow for this contract budget is expected to begin.
Expected Maturity End	The date the cash flow for this contract budget is expected to end. The maturity date is only relevant if the cash flow projection method needs it.
Distribution Method	The method used to distribute the cash flow of the revenue over time based on expected maturity and expected maturity date.

The meaning of the other fields:

Unallocated Budget on Cost Category	Current budget space for this cost category.
Size	Size of the linked documents.

Budget Movements

In this screen the budget movements are registered. It is only permitted to reallocate the budget over main cost categories, if this is set in Settings 336.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Budget Movements
Budget Movements
Project Code
Project Name
Explanation
Cost Category From
Cost Category To
Search
10 rows per page
Search results (5)
Create
Add
New

Project	Cost Category From	Cost Category To	Budget Movement	Created on	Explanation	#Documents	Size
C204	V2000 - Analyse	V2210 - Systeembeheer	1.250,00	15-11-2012 16:56	Analyse opgenomen in beheer. DT 20090301		
Plein	1000 - Koopsom grond	1020 - Koopsom overigen	3.000,00	15-11-2012 16:56	Besproken met Kees op 30 november.		
Plein	1010 - Koopsom gebouwen	1000 - Koopsom grond	100.000,00	15-11-2012 16:56	Activiteiten verhuisd naar 1000.		
Plein	1010 - Koopsom gebouwen	1020 - Koopsom overigen	750,00	15-11-2012 16:56	Wordt elders gefactureerd.		
Plein	1010 - Koopsom gebouwen	1020 - Koopsom overigen	1.000,00	15-11-2012 16:56	Budget niet meer nodig.		

Project * Select Value
Cost Category From * Select Value
Cost Category To * Select Value
Budget Movement *
Explanation *
Created on
Documents

The meaning of the entry fields is:

Project	The project of which the budget movement is part of.
Cost Category From	The costs category from which the budget is transferred.
Cost Category To	The cost category to which the budget is transferred.
Budget Movement	The budget amount that is transferred.
Explanation	An informative explanation such as the cause of the budget movement or the person with whom the budget movement was discussed.

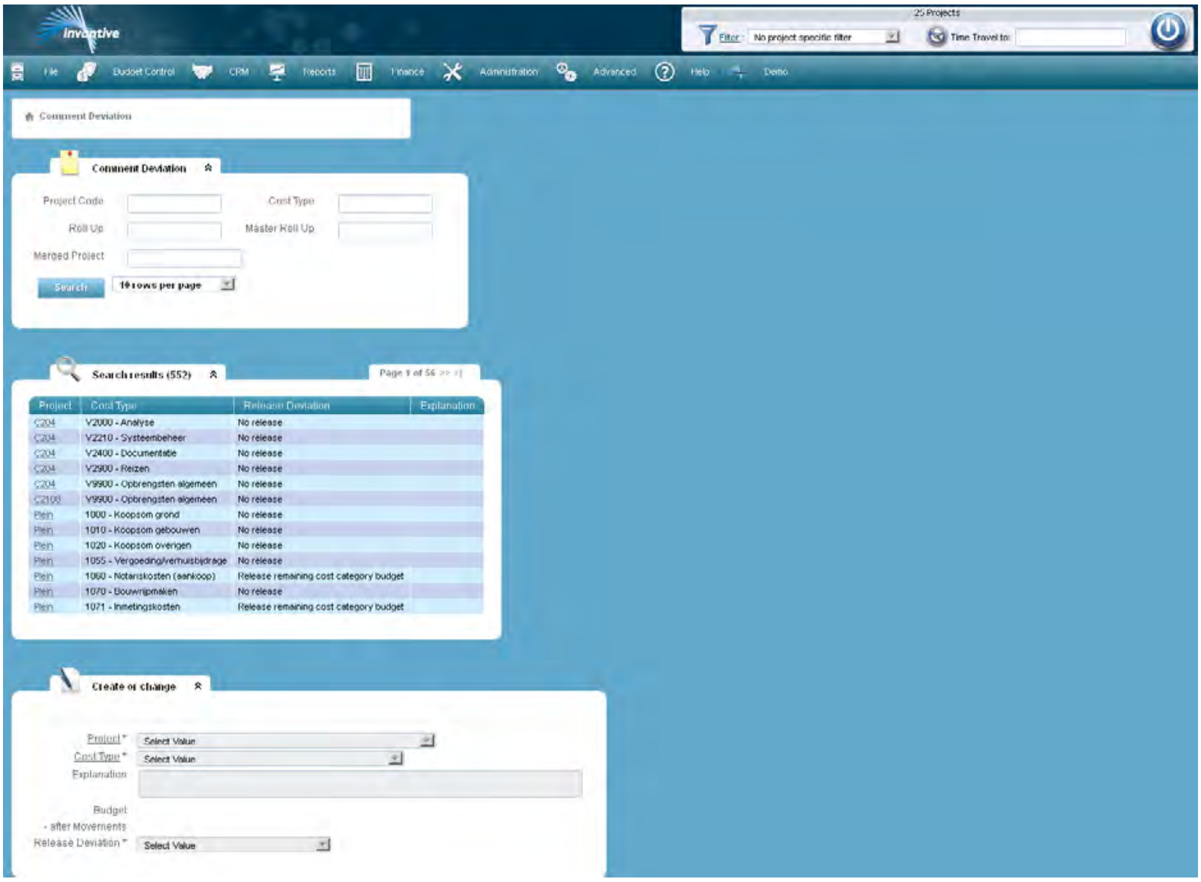
The meaning of the other fields:

Created at	The date on which the budget movement is created.
Documents	Linked documents, see Linking Documents 29.
Size	Size of the linked documents.

Comment Deviation

This screen allows you explanations on exceptions to the budget record and change.

Often the client will expect an explanation why a budget overrun occurs within a cost category. Through this registration you can provide this information in a quick and clear manner.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Comment Deviation
Comment Deviation
Project Code
Cost Type
Roll Up
Master Roll Up
Merged Project
Search
10 rows per page
Search results (552)
Page 1 of 56 >> >|
Create or change
Project *
Select Value
Cost Type *
Select Value
Explanation
Budget
- after Movements
Release Deviation *
Select Value

Project	Cost Type	Release Deviation	Explanation
C204	V2000 - Analyse	No release	
C204	V2210 - Systeembeheer	No release	
C204	V2400 - Documentatie	No release	
C204	V2900 - Reizen	No release	
C204	V9900 - Opbrengsten algemeen	No release	
C2100	V9900 - Opbrengsten algemeen	No release	
Plein	1000 - Koopsom grond	No release	
Plein	1010 - Koopsom gebouwen	No release	
Plein	1020 - Koopsom overigen	No release	
Plein	1055 - Vergoeding/verhuisbijdrage	No release	
Plein	1060 - Notariskosten (aankoop)	Release remaining cost category budget	
Plein	1070 - Bouwrijpmaken	No release	
Plein	1071 - Inmetingskosten	Release remaining cost category budget	

The meaning of the entry fields is:

Project	The project of which the comment is part of.
Cost Type	The cost category to which the comment refers. Cost categories can only be chosen from a master roll up of the type 'Revenues' and 'Costs'.
Explanation	The text of the explanation.
Release Deviation	The budgetary surplus on this cost category and budget surpluses on related contract budgets can be used to compensate for deficits on other cost categories.

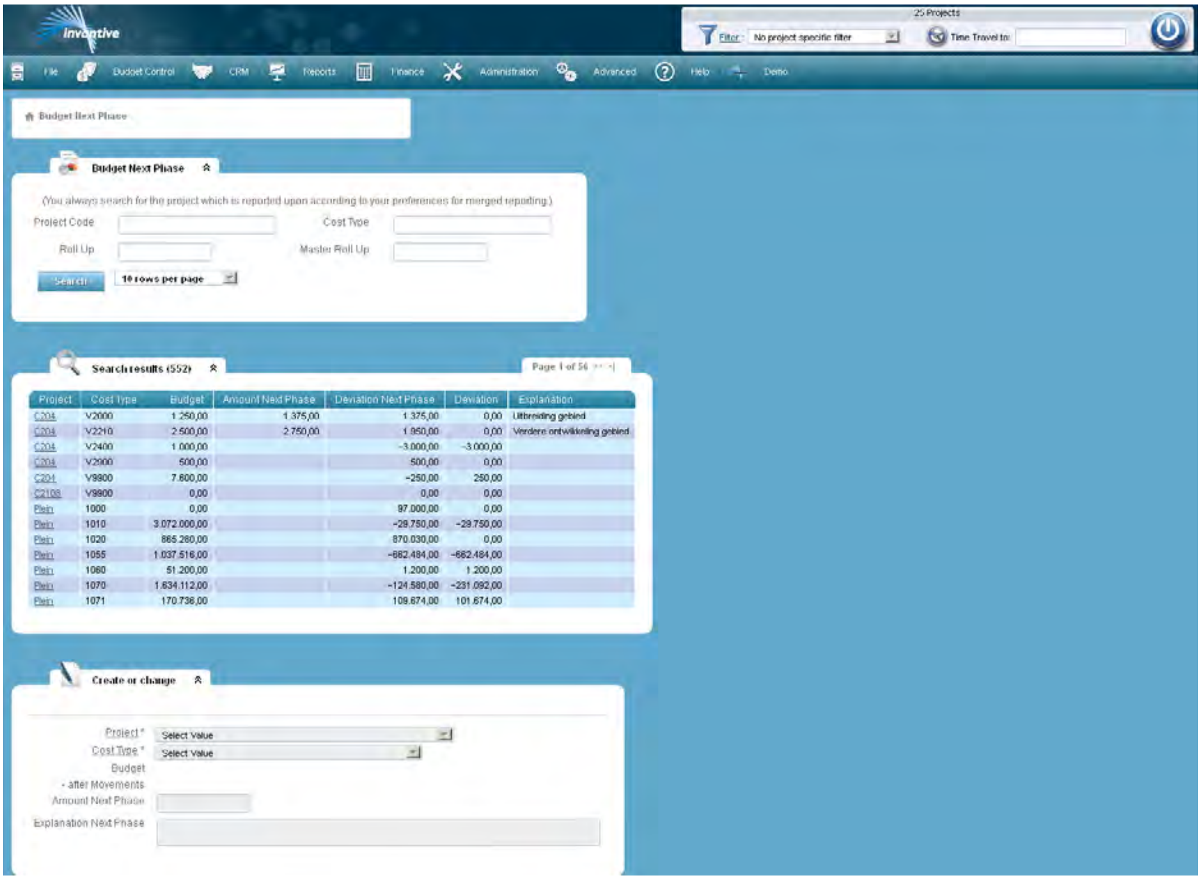
The meaning of the other fields:

Budget	Reference to a budget as registered in Budgets 149.
Remaining Cost Category Budget after Movements	Budget after the corrections for budgetverschuivingen.Budget after the corrections for budget mutations.

Budget Next Phase

In this screen you want the budget for the next phase of the project record and change.

After the administration has established an approved expose, you can, as project developer, start realizing the relevant phase of the project. For a next phase there is obviously a need for a higher budget. In this form you can allocate what budget you think you need for the next phase.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Budget Next Phase
Budget Next Phase
Search
10 rows per page
Search results (552)
Page 1 of 56
Create or change

(You always search for the project which is reported upon according to your preferences for merged reporting.)

Project Code
Cost Type
Roll Up
Master Roll Up

Project	Cost Type	Budget	Amount Next Phase	Deviation Next Phase	Deviation	Explanation
C204	V2000	1.250,00	1.375,00	1.375,00	0,00	Uitbreiding gebied
C204	V2210	2.500,00	2.750,00	1.950,00	0,00	Verdere ontwikkeling gebied
C204	V2400	1.000,00		-3.000,00	-3.000,00	
C204	V2900	500,00		500,00	0,00	
C204	V9900	7.600,00		-250,00	250,00	
C2108	V9900	0,00		0,00	0,00	
Plein	1000	0,00		97.000,00	0,00	
Plein	1010	3.072.000,00		-29.750,00	-29.750,00	
Plein	1020	865.280,00		870.030,00	0,00	
Plein	1055	1.037.516,00		-662.484,00	-662.484,00	
Plein	1060	51.200,00		1.200,00	1.200,00	
Plein	1070	1.634.112,00		-124.580,00	-231.092,00	
Plein	1071	170.736,00		109.674,00	101.674,00	

Project * Select Value
Cost Type * Select Value
Budget
- after Movements
Amount Next Phase
Explanation Next Phase

The meaning of the entry fields is:

Project	The project where the budget next phase is part of. Please note: when searching you should use the master project if you have merged reports turned on!
Cost Type	The costs type where the budget next phase is registered. Only cost categories can be chosen from the master roll up of the type 'Costs' or 'Revenues'.
Amount Next Phase	The total budget amount for the next phase that will be requested.
Explanation Next Phase	A possible explanation of the requested budget.

The meaning of the other fields:

Budget	Reference to a budget as registered in Budgets 149.
Remaining Cost Category Budget after Movements	The budget after the adjustments for budget movements.
Deviation Next Phase	The differenct between the amount next phase and the budget from the next phase.
Deviation	The total difference between budget and revenue for all phases.

1.2.3.5 Reports

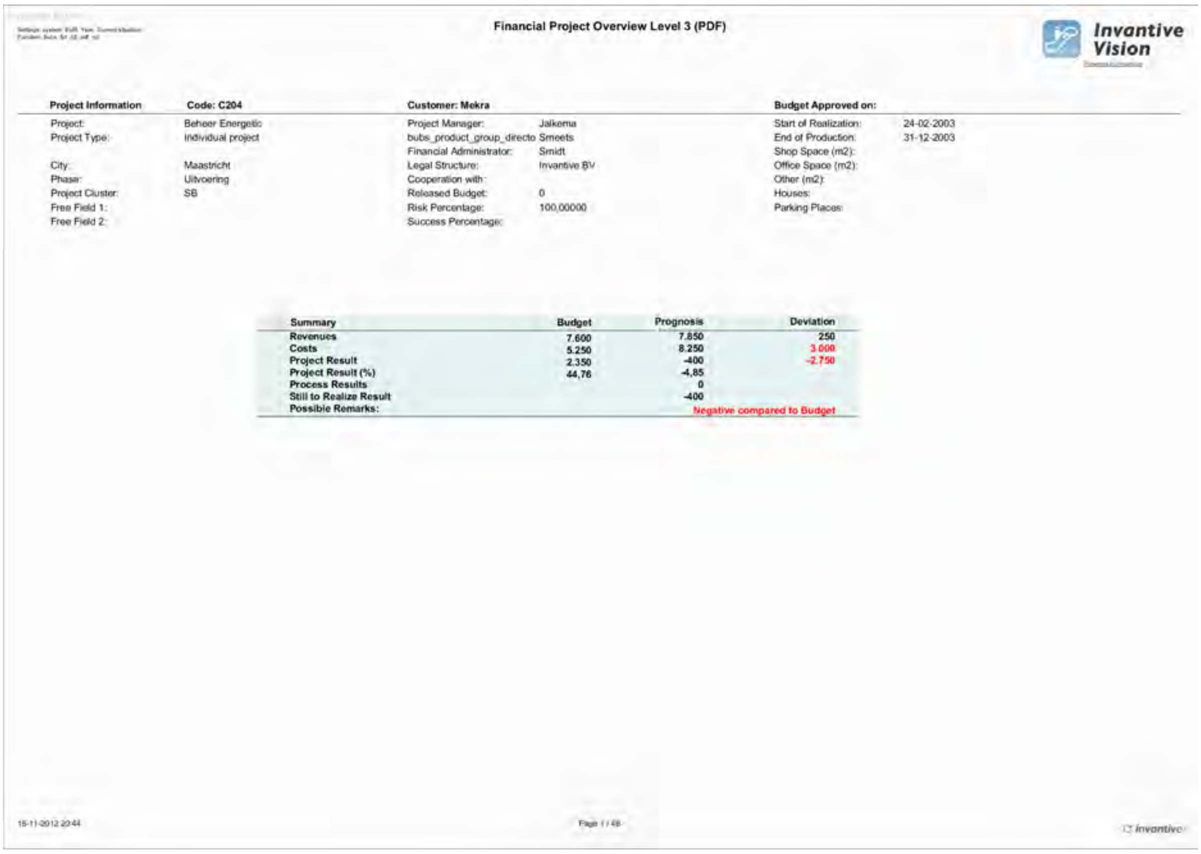
Reports give all kind of information about a project and are available in Adobe PDF and Microsoft Excel format. You can edit data making use of the hyperlinks 24 in the reports.

Project overview

Enter text here.

Financial Project Overview Level 3

This report allows you to request the financial status on project level, on the level of the master roll ups and on the level of cost categories.



Financial Project Overview Level 3 (PDF)

Project Information	Code: C204	Customer: Mekra		Budget Approved on:	
Project:	Beheer Energetic	Project Manager:	Jalkema	Start of Realization:	24-02-2003
Project Type:	Individual project	bubs_product_group_directo	Smeets	End of Production:	31-12-2003
		Financial Administrator:	Smidt	Shop Space (m2):	
City:	Maastricht	Legal Structure:	Invantive BV	Office Space (m2):	
Phase:	Uitvoering	Cooperation with:		Other (m2):	
Project Cluster:	SB	Released Budget:	0	Houses:	
Free Field 1:		Risk Percentage:	100,00000	Parking Places:	
Free Field 2:		Success Percentage:			

Summary	Budget	Prognosis	Deviation
Revenues	7.600	7.850	250
Costs	5.250	8.250	3.000
Project Result	2.350	-400	-2.750
Project Result (%)	44,76	-4,85	
Process Results		0	
Still to Realize Result		-400	
Possible Remarks:			Negative compared to Budget

15-11-2012 20:44

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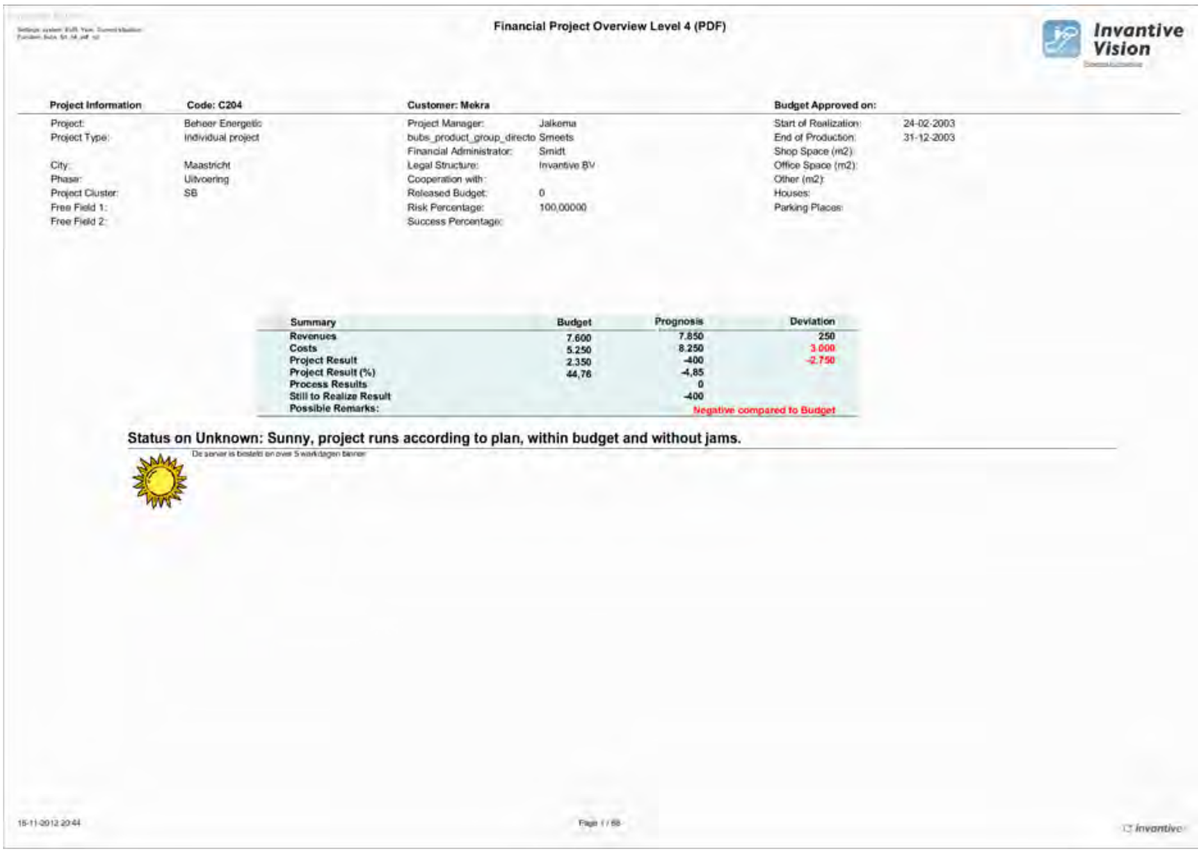
The fields have the same meaning as the fields used for reporting level 2, see Financial Project Overview Level 2 115.

Financial Project Overview Level 4

This report allows you to request the financial status on project level, on master roll up level and on individual contract level.



Financial Project Overview Level 4 (PDF)

Project Information	Code: C204	Customer: Mekra		Budget Approved on:	
Project:	Beheer Energetic	Project Manager:	Jalkema	Start of Realization:	24-02-2003
Project Type:	Individual project	bubs_product_group_directo	Smeets	End of Production:	31-12-2003
		Financial Administrator:	Smidt	Shop Space (m2):	
City:	Maastricht	Legal Structure:	Invantive BV	Office Space (m2):	
Phase:	Uitvoering	Cooperation with:		Other (m2):	
Project Cluster:	SB	Released Budget:	0	Houses:	
Free Field 1:		Risk Percentage:	100,00000	Parking Places:	
Free Field 2:		Success Percentage:			

Summary	Budget	Prognosis	Deviation
Revenues	7.600	7.850	250
Costs	5.250	8.250	3.000
Project Result	2.350	-400	-2.750
Project Result (%)	44,76	-4,85	
Process Results		0	
Still to Realize Result		-400	
Possible Remarks:		Negative compared to Budget	

Status on Unknown: Sunny, project runs according to plan, within budget and without jams.

De server is besteld en over 5 werkdagen binnen

15-11-2012 20:44

Page 1 / 68

The fields have the same meaning as the fields used for reporting level 2, see Financial Project Overview Level 2 115.

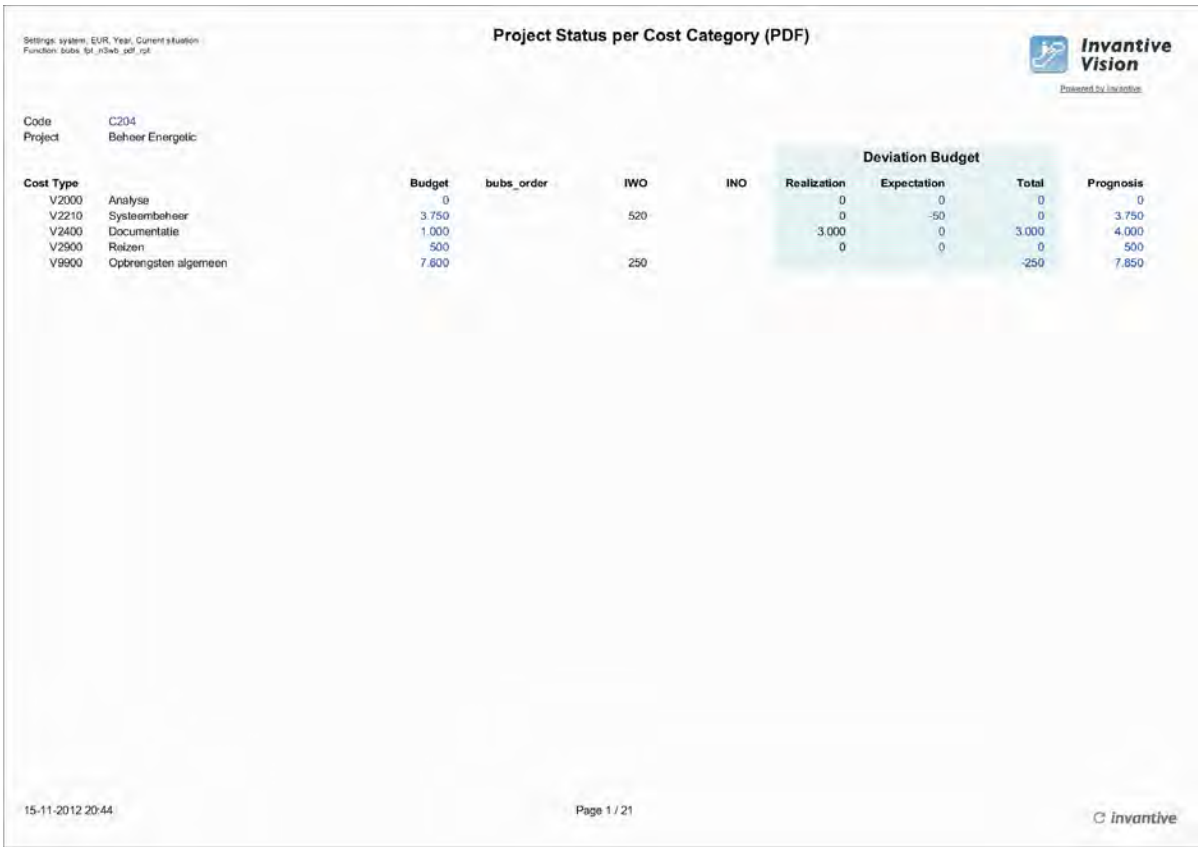
Project Status

Enter text here.

Project Status per Cost Category

This report allows you to request the financial status per cost category at project level.

The abbreviation ‘IWO’ stand for ‘Invoice with Order’ which means the amount belonging to an invoice which is linked to an order. The abbreviation ‘INO’ means ‘Invoice with No Order’ which means the amount of an invoice that is not linked to an order.



Settings: system, EUR, Year, Current situation
Function: bubs_fpt_n3wb_pdf_rpt

Project Status per Cost Category (PDF)

Code C204
Project Beheer Energetic

Cost Type		Budget	bubs_order	IWO	INO	Deviation Budget Realization	Expectation	Total	Prognosis
V2000	Analyse	0				0	0	0	0
V2210	Systeembeheer	3.750		520		0	-50	0	3.750
V2400	Documentatie	1.000				3.000	0	3.000	4.000
V2900	Reizen	500				0	0	0	500
V9900	Opbrengsten algemeen	7.600		250				-250	7.850

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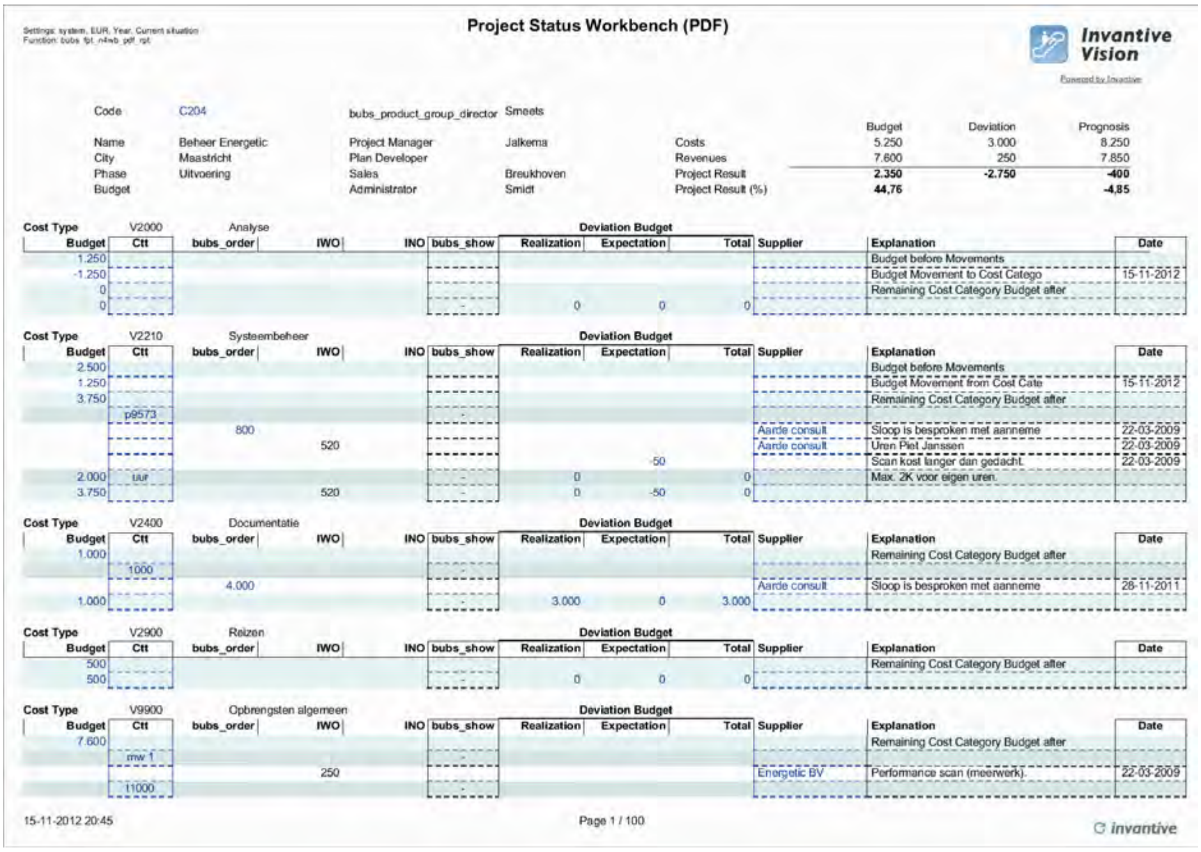
Project Status Workbench

This report allows you to request the financial status on project level and on the level of cost category as shown in the workbench.



Settings: system, EUR, Year, Current situation
Function: bubs_fpt_n4wb_pdf_rpt

Project Status Workbench (PDF)

Code C204
bubs_product_group_director Smeets

					Budget	Deviation	Prognosis
Name	Beheer Energetic	Project Manager	Jalkema	Costs	5.250	3.000	8.250
City	Maastricht	Plan Developer		Revenues	7.600	250	7.850
Phase	Uitvoering	Sales	Breukhoven	Project Result	**2.350**	**-2.750**	**-400**
Budget		Administrator	Smidt	Project Result (%)	**44,76**		**-4,85**

Cost Type V2000 Analyse

Budget	Ctt	bubs_order	IWO	INO	bubs_show	Deviation Budget Realization	Expectation	Total	Supplier	Explanation	Date
1.250										Budget before Movements	
-1.250										Budget Movement to Cost Catego	15-11-2012
0										Remaining Cost Category Budget after	
0					-	0	0	0			

Cost Type V2210 Systeembeheer

Budget	Ctt	bubs_order	IWO	INO	bubs_show	Deviation Budget Realization	Expectation	Total	Supplier	Explanation	Date
2.500										Budget before Movements	
1.250										Budget Movement from Cost Cate	15-11-2012
3.750										Remaining Cost Category Budget after	
	p9573				-						
		800							Aarde consult	Sloop is besproken met aanneme	22-03-2009
			520						Aarde consult	Uren Piet Janssen	22-03-2009
							-50			Scan kost langer dan gedacht.	22-03-2009
2.000	uur				-	0		0		Max. 2K voor eigen uren.	
3.750			520		-	0	-50	0			

Cost Type V2400 Documentatie

Budget	Ctt	bubs_order	IWO	INO	bubs_show	Deviation Budget Realization	Expectation	Total	Supplier	Explanation	Date
1.000										Remaining Cost Category Budget after	
	1000				-						
		4.000							Aarde consult	Sloop is besproken met aanneme	28-11-2011
1.000					-	3.000	0	3.000			

Cost Type V2900 Reizen

Budget	Ctt	bubs_order	IWO	INO	bubs_show	Deviation Budget Realization	Expectation	Total	Supplier	Explanation	Date
500										Remaining Cost Category Budget after	
500					-	0	0	0			

Cost Type V9900 Opbrengsten algemeen

Budget	Ctt	bubs_order	IWO	INO	bubs_show	Deviation Budget Realization	Expectation	Total	Supplier	Explanation	Date
7.600										Remaining Cost Category Budget after	
	mw 1				-						
			250						Energetic BV	Performance scan (meerwerk).	22-03-2009
	11000				-						

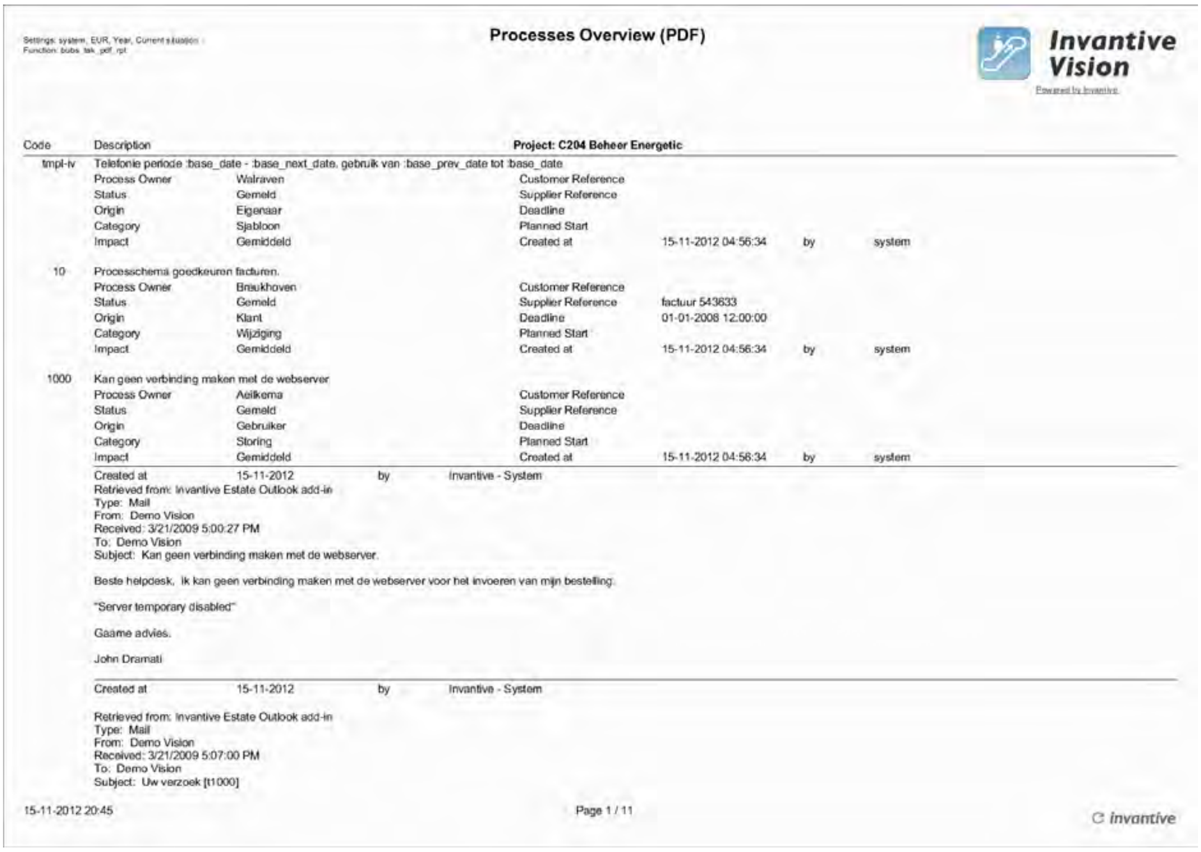
15-11-2012 20:45 Page 1 / 100

Processes

Enter text here.

Processes Overview

With this report you can request the status of the processes. The report shows only processes that have not been completed.



Processes Overview (PDF)

Settings: system, EUR, Year, Current situation
Function: bubs_tsk_pdf_rpt

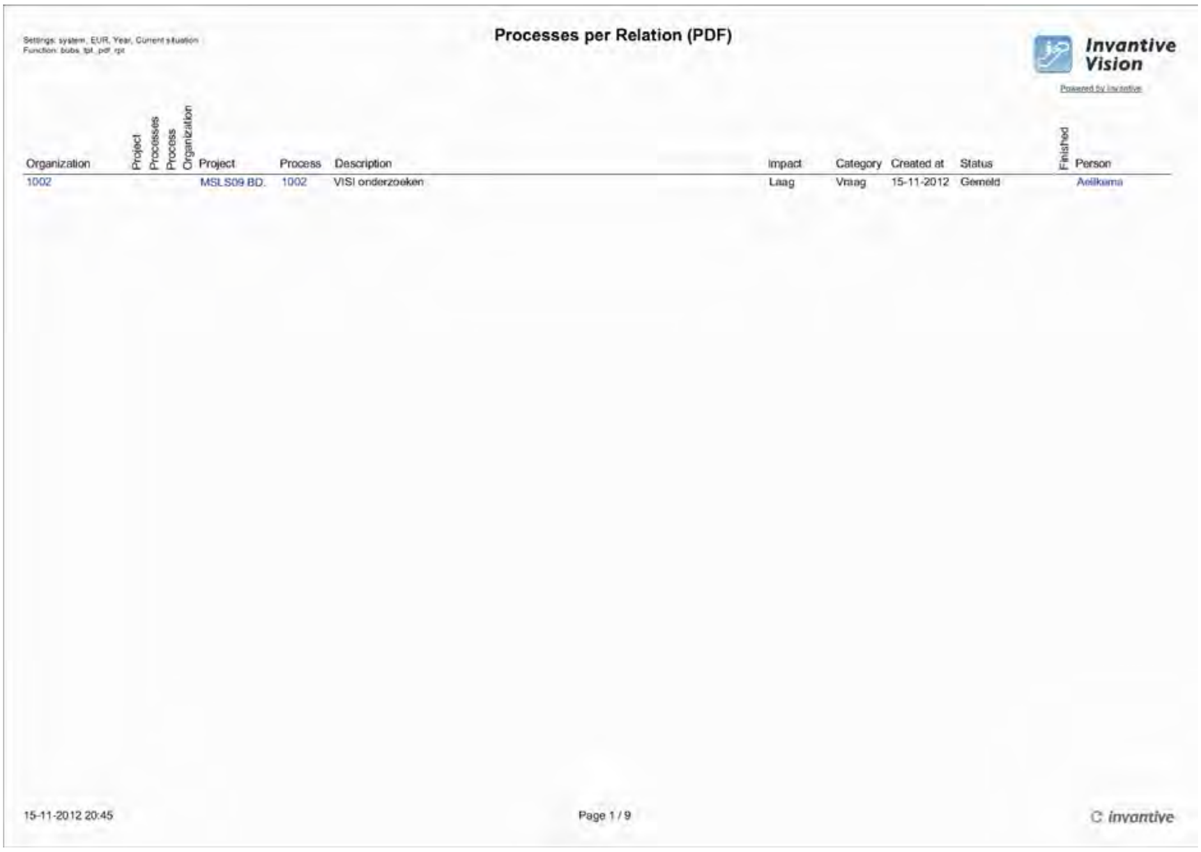
```
Code     Description                                    Project: C204 Beheer Energetic
tmpl-iv  Telefonie periode :base_date - :base_next_date. gebruik van :base_prev_date tot :base_date
         Process Owner   Walraven                       Customer Reference
         Status          Gemeld                         Supplier Reference
         Origin          Eigenaar                       Deadline
         Category        Sjabloon                       Planned Start
         Impact          Gemiddeld                      Created at          15-11-2012 04:56:34   by   system

10       Processchema goedkeuren facturen.
         Process Owner   Braukhoven                     Customer Reference
         Status          Gemeld                         Supplier Reference  factuur 543633
         Origin          Klant                          Deadline            01-01-2008 12:00:00
         Category        Wijziging                      Planned Start
         Impact          Gemiddeld                      Created at          15-11-2012 04:56:34   by   system

1000     Kan geen verbinding maken met de webserver
         Process Owner   Aeilkema                       Customer Reference
         Status          Gemeld                         Supplier Reference
         Origin          Gebruiker                      Deadline
         Category        Storing                        Planned Start
         Impact          Gemiddeld                      Created at          15-11-2012 04:56:34   by   system
         Created at      15-11-2012        by      Invantive - System
         Retrieved from: Invantive Estate Outlook add-in
         Type:  Mail
         From:  Demo Vision
         Received: 3/21/2009 5:00:27 PM
         To:  Demo Vision
         Subject:  Kan geen verbinding maken met de webserver.

         Beste helpdesk,  Ik kan geen verbinding maken met de webserver voor het invoeren van mijn bestelling.

         "Server temporary disabled"

         Gaarne advies.

         John Dramati
         Created at      15-11-2012        by      Invantive - System

         Retrieved from: Invantive Estate Outlook add-in
         Type:  Mail
         From:  Demo Vision
         Received: 3/21/2009 5:07:00 PM
         To:  Demo Vision
         Subject:  Uw verzoek [t1000]
15-11-2012 20:45                      Page 1 / 11
```

The meaning of the fields is the same as the fields shown in the processes screen Processes 53.

Processes per Relation

This report shows per Relation the processes per project. Also an indicator shows whether the process already has been completed.

A process is on the list when:
- The owner works for the relation.
- The reporter works for the relation.
- The relation is the organization on whose behalf the process was created.
- The relation is customer of the project of the process.



Settings: system, EUR, Year, Current situation
Function: bubs_tpl_pdf_rpt

Processes per Relation (PDF)

Organization	Project	Processes	Process	Organization	Project	Process	Description	Impact	Category	Created at	Status	Finished	Person
1002					MSLS09 BD.	1002	VISI onderzoeken	Laag	Vraag	15-11-2012	Gemeld		Aeilkema

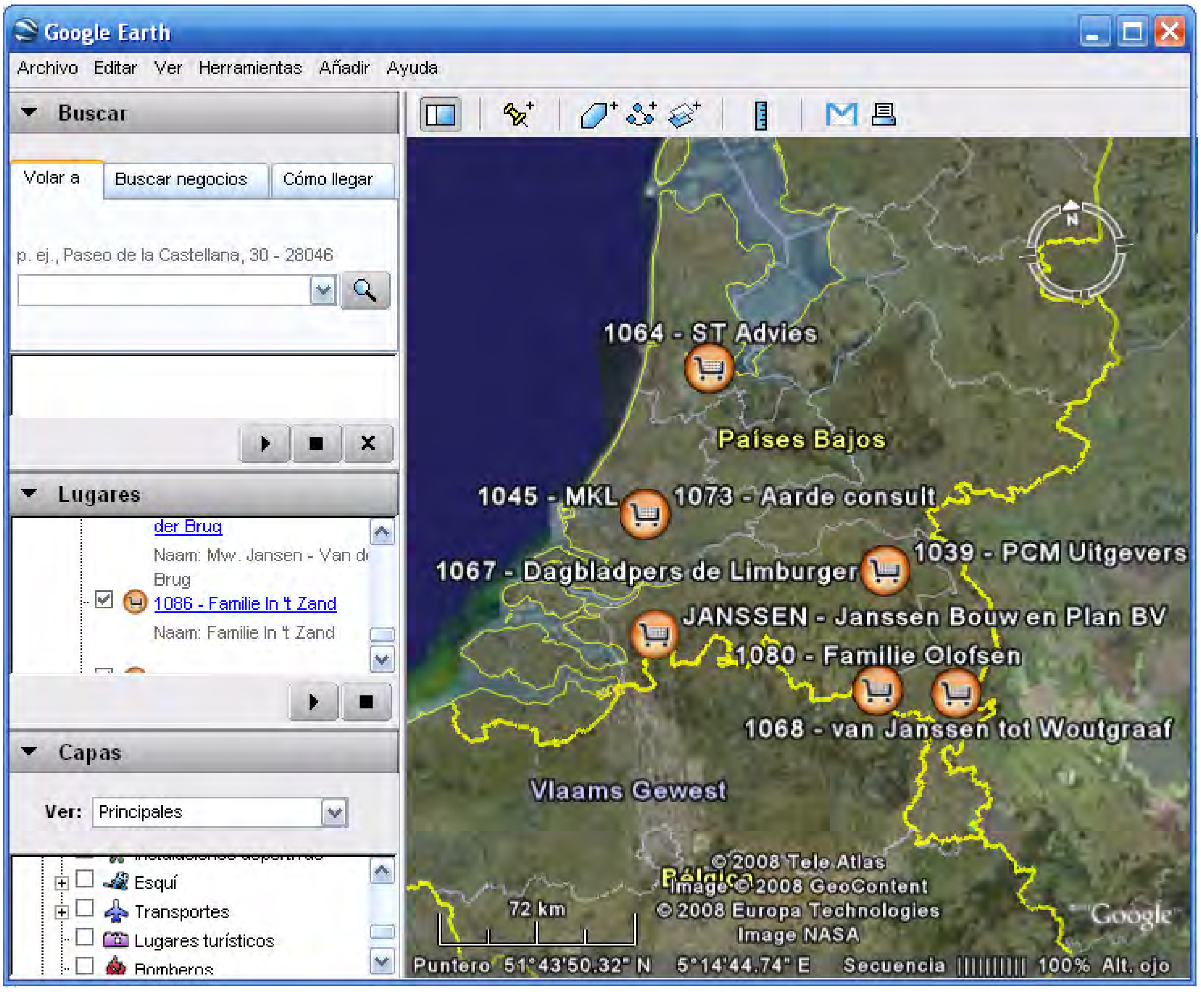
15-11-2012 20:45 Page 1 / 9

Geographical Overview

Enter text here.

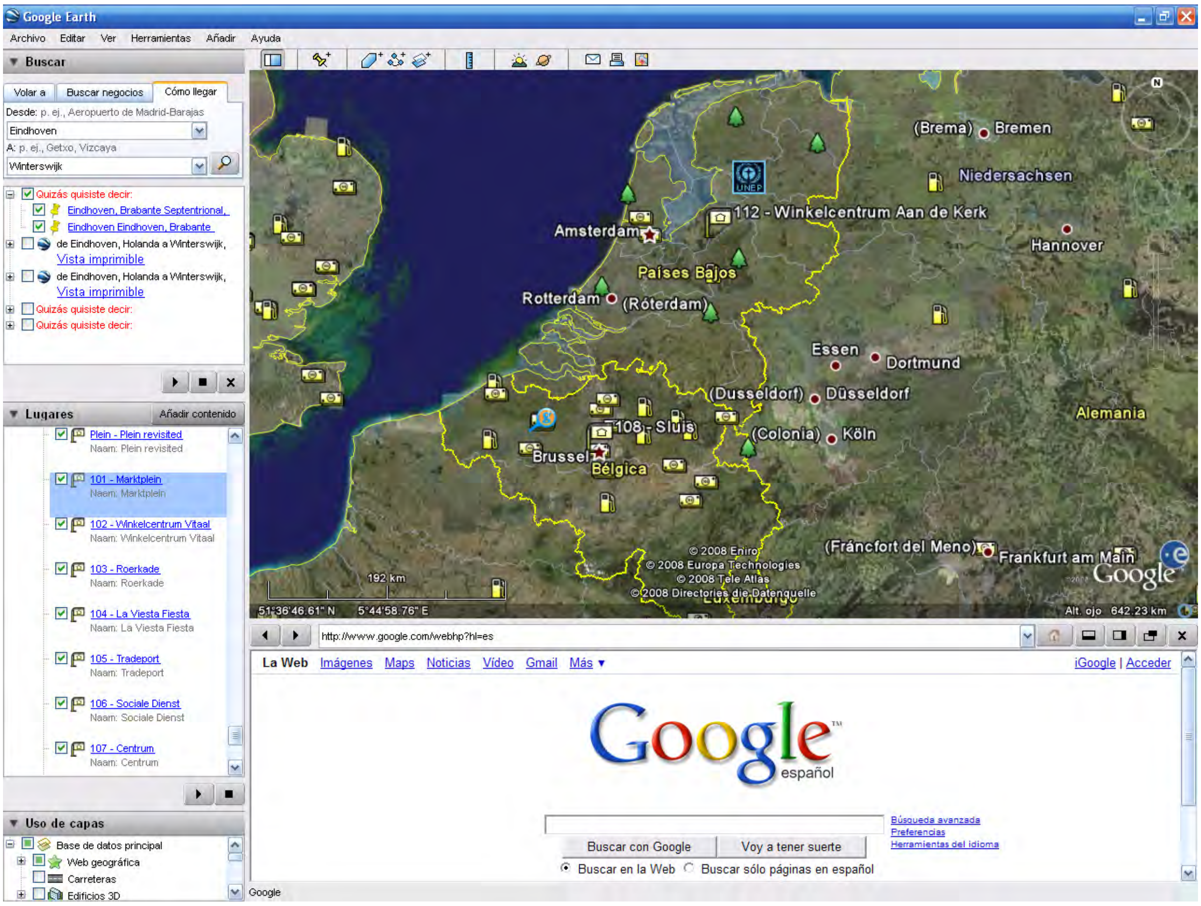
Geographical Overview Organizations

This report shows the geographic locations of the organizations involved in the projects. To run this report ‘Google Earth’ needs to be installed.


Google Earth
Archivo Editar Ver Herramientas Añadir Ayuda
Buscar
Volar a
Buscar negocios
Cómo llegar
p. ej., Paseo de la Castellana, 30 - 28046
Lugares
der Brug
Naam: Mw. Jansen - Van de Brug
1086 - Familie In 't Zand
Naam: Familie In 't Zand
Capas
Ver: Principales
Esquí
Transportes
Lugares turísticos
Bomberos
1064 - ST Advies
Países Bajos
1045 - MKL
1073 - Aarde consult
1067 - Dagbladpers de Limburger
1039 - PCM Uitgevers
JANSSEN - Janssen Bouw en Plan BV
1080 - Familie Olofsen
1068 - van Janssen tot Woutgraaf
Vlaams Gewest
Bélgica
© 2008 Tele Atlas
Image © 2008 GeoContent
© 2008 Europa Technologies
Image NASA
72 km
Google
Puntero 51°43'50.32" N 5°14'44.74" E Secuencia 100% Alt. ojo

Geographic Overview Projects

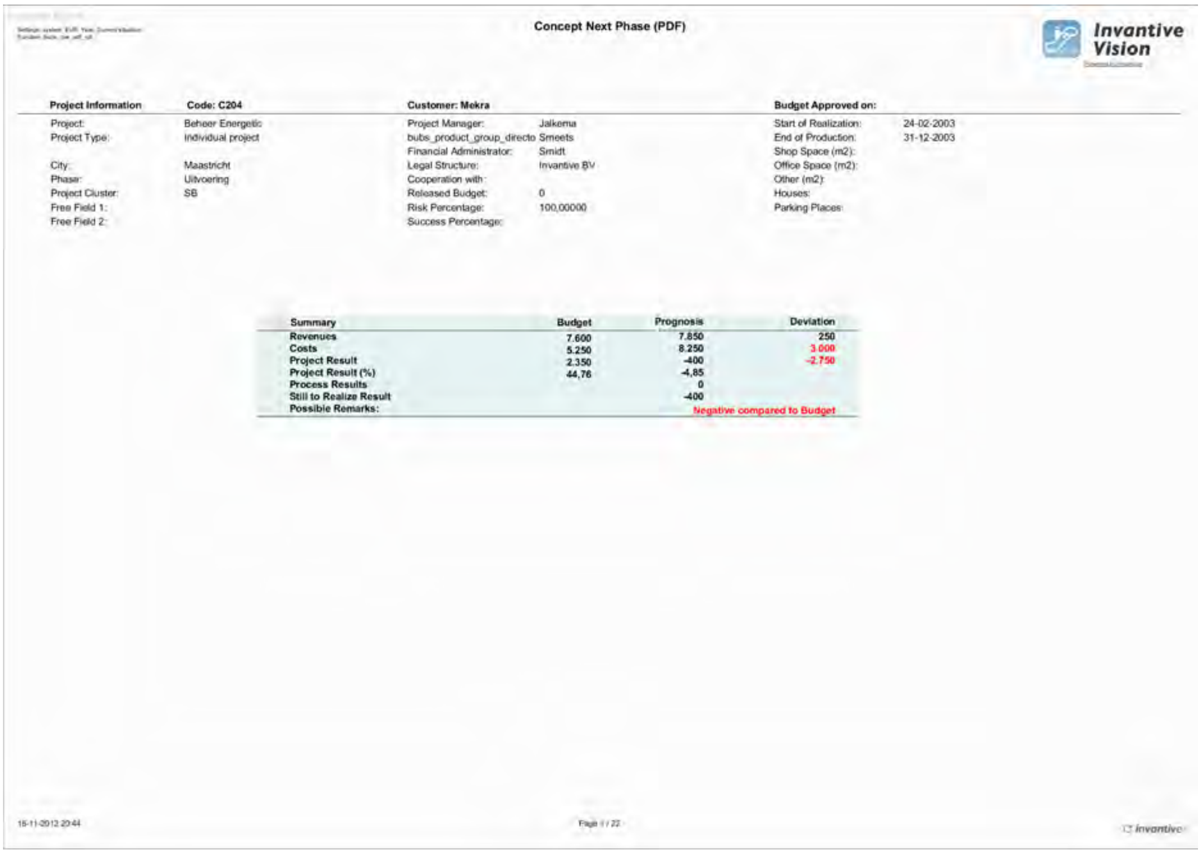
This report shows the geographic locations of the projects. To run this report ‘Google Earth’ needs to be installed.


Google Earth
Archivo Editar Ver Herramientas Añadir Ayuda
Buscar
Volar a
Buscar negocios
Cómo llegar
Desde: p. ej., Aeropuerto de Madrid-Barajas
Eindhoven
A: p. ej., Getxo, Vizcaya
Winterswijk
Quizás quisiste decir:
Eindhoven, Brabante Septentrional,
Eindhoven Eindhoven, Brabante
de Eindhoven, Holanda a Winterswijk,
Vista imprimible
de Eindhoven, Holanda a Winterswijk,
Vista imprimible
Quizás quisiste decir:
Quizás quisiste decir:
Lugares
Añadir contenido
Plein - Plein revisited
Naam: Plein revisited
101 - Marktplein
Naam: Marktplein
102 - Winkelcentrum Vitaal
Naam: Winkelcentrum Vitaal
103 - Roerkade
Naam: Roerkade
104 - La Viesta Fiesta
Naam: La Viesta Fiesta
105 - Tradeport
Naam: Tradeport
106 - Sociale Dienst
Naam: Sociale Dienst
107 - Centrum
Naam: Centrum
Uso de capas
Base de datos principal
Web geográfica
Carreteras
Edificios 3D
(Brema) Bremen
Niedersachsen
112 - Winkelcentrum Aan de Kerk
Amsterdam
Hannover
Países Bajos
Rotterdam (Róterdam)
Essen
Dortmund
(Dusseldorf) Düsseldorf
Alemania
108 - Sluis
(Colonia) Köln
Brussel
Bélgica
(Fráncfort del Meno) Frankfurt am Main
192 km
© 2008 Eniro
© 2008 Europa Technologies
© 2008 Tele Atlas
©2008 Directories die Datenquelle
51°36'46.61" N 5°44'58.76" E
Alt. ojo 642.23 km
http://www.google.com/webhp?hl=es
La Web Imágenes Maps Noticias Video Gmail Más ▾
iGoogle | Acceder
Google español
Búsqueda avanzada
Preferencias
Herramientas del idioma
Buscar con Google
Voy a tener suerte
● Buscar en la Web ○ Buscar sólo páginas en español
Google

Concept Next Phase

This report allows you to request the financial status on project level, on the level of the master roll ups and on the level of cost categories.

Besides the information on report level 3, you can also see the requested budget for the next phase, as registered in Expected Budget Next Phase 76.



Concept Next Phase (PDF)

Project Information	Code: C204	Customer: Mekra		Budget Approved on:	
Project:	Beheer Energetic	Project Manager:	Jalkema	Start of Realization:	24-02-2003
Project Type:	Individual project	bubs_product_group_directo	Smeets	End of Production:	31-12-2003
		Financial Administrator:	Smidt	Shop Space (m2):	
City:	Maastricht	Legal Structure:	Invantive BV	Office Space (m2):	
Phase:	Uitvoering	Cooperation with:		Other (m2):	
Project Cluster:	SB	Released Budget:	0	Houses:	
Free Field 1:		Risk Percentage:	100,00000	Parking Places:	
Free Field 2:		Success Percentage:			

Summary	Budget	Prognosis	Deviation
Revenues	7.600	7.850	250
Costs	5.250	8.250	3.000
Project Result	2.350	-400	-2.750
Project Result (%)	44,76	-4,85	
Process Results		0	
Still to Realize Result		-400	
Possible Remarks:			Negative compared to Budget

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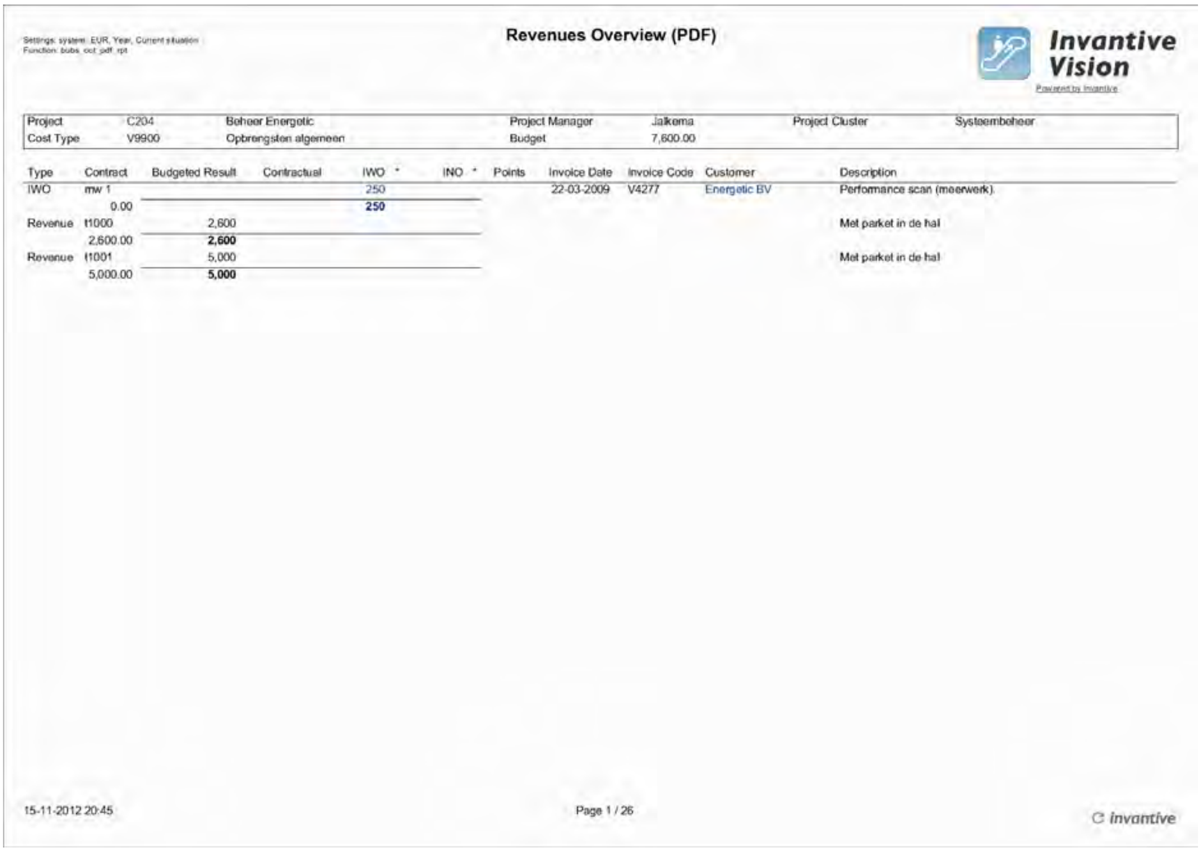
The fields have the same meaning as the fields used for reporting level 2, see Financial Project Overview Level 2 115.

Revenues Overview

This report lets you project revenue per query.



Settings: system: EUR, Year, Current situation
Function: bubs_oct_pdf_rpt

Revenues Overview (PDF)

Project	C204	Beheer Energetic	Project Manager	Jalkema	Project Cluster	Systeembeheer
Cost Type	V9900	Opbrengsten algemeen	Budget	7,600.00		

Type	Contract	Budgeted Result	Contractual	IWO *	INO *	Points	Invoice Date	Invoice Code	Customer	Description
IWO	mw 1			250			22-03-2009	V4277	Energetic BV	Performance scan (meerwerk).
	0.00			**250**						
Revenue	t1000	2,600								Met parket in de hal
	2,600.00	**2,600**								
Revenue	t1001	5,000								Met parket in de hal
	5,000.00	**5,000**								

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User Activity

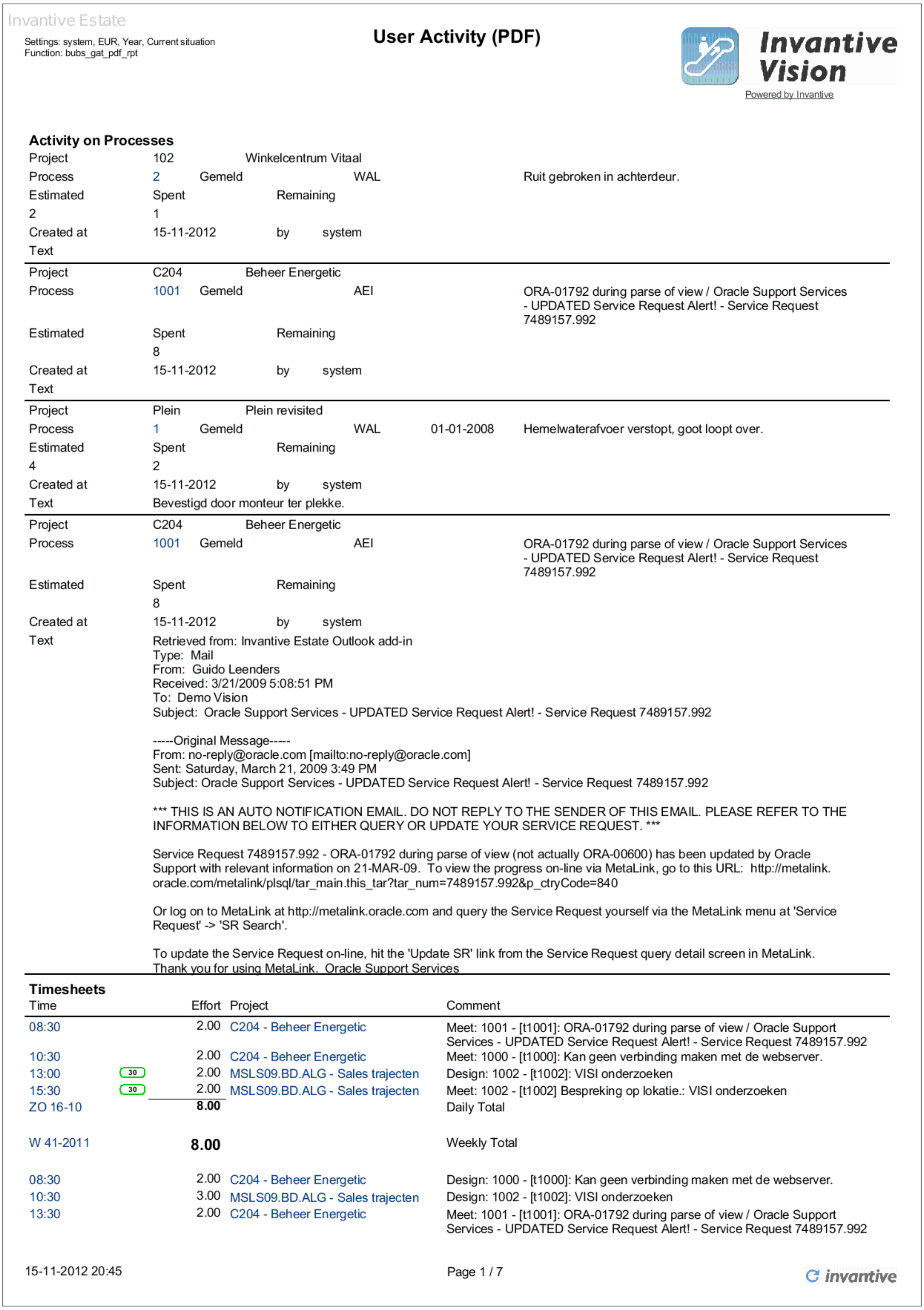
This screen allows you to request ‘process level’ where a person worked on.

In the second part of this report which is called ‘time registrations’, shows the number of hours and the total amount of hours that a project employee has been working on a project.

It can occur that there are overlaps or gaps between the hours worked. In the case of an overlap, the report shows a red outlined field that contains the minutes of the overlap. If the worked hours do not contiguous, the report shows a green outlined field that contains the extent of the hole in minutes.

The period of the report can be entered via the report parameters.

Warning! The report is grouped by year, month, and then week. This can cause that in the end of a year a month could be cut in half and that in the end of the month a week could be cut in half.



Invantive Estate

Settings: system, EUR, Year, Current situation
Function: bubs_gat_pdf_rpt

User Activity (PDF)

Activity on Processes

Project	102	Winkelcentrum Vitaal			
Process	2 Gemeld		WAL		Ruit gebroken in achterdeur.
Estimated	Spent	Remaining			
2	1				
Created at	15-11-2012	by system			
Text					

Project	C204	Beheer Energetic			
Process	1001 Gemeld		AEI		ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992
Estimated	Spent	Remaining			
	8				
Created at	15-11-2012	by system			
Text					

Project	Plein	Plein revisited			
Process	1 Gemeld		WAL	01-01-2008	Hemelwaterafvoer verstopt, goot loopt over.
Estimated	Spent	Remaining			
4	2				
Created at	15-11-2012	by system			
Text	Bevestigd door monteur ter plekke.				

Project	C204	Beheer Energetic			
Process	1001 Gemeld		AEI		ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992
Estimated	Spent	Remaining			
	8				
Created at	15-11-2012	by system			

Text

Retrieved from: Invantive Estate Outlook add-in
Type: Mail
From: Guido Leenders
Received: 3/21/2009 5:08:51 PM
To: Demo Vision
Subject: Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992

-----Original Message-----
From: no-reply@oracle.com [mailto:no-reply@oracle.com]
Sent: Saturday, March 21, 2009 3:49 PM
Subject: Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992

*** THIS IS AN AUTO NOTIFICATION EMAIL. DO NOT REPLY TO THE SENDER OF THIS EMAIL. PLEASE REFER TO THE INFORMATION BELOW TO EITHER QUERY OR UPDATE YOUR SERVICE REQUEST. ***

Service Request 7489157.992 - ORA-01792 during parse of view (not actually ORA-00600) has been updated by Oracle Support with relevant information on 21-MAR-09. To view the progress on-line via MetaLink, go to this URL: http://metalink.oracle.com/metalink/plsql/tar_main.this_tar?tar_num=7489157.992&p_ctryCode=840

Or log on to MetaLink at http://metalink.oracle.com and query the Service Request yourself via the MetaLink menu at 'Service Request' -> 'SR Search'.

To update the Service Request on-line, hit the 'Update SR' link from the Service Request query detail screen in MetaLink.
Thank you for using MetaLink. Oracle Support Services

Timesheets

Time		Effort	Project	Comment
08:30		2.00	C204 - Beheer Energetic	Meet: 1001 - [t1001]: ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992
10:30		2.00	C204 - Beheer Energetic	Meet: 1000 - [t1000]: Kan geen verbinding maken met de webserver.
13:00	30	2.00	MSLS09.BD.ALG - Sales trajecten	Design: 1002 - [t1002]: VISI onderzoeken
15:30	30	2.00	MSLS09.BD.ALG - Sales trajecten	Meet: 1002 - [t1002] Bespreking op lokatie.: VISI onderzoeken
ZO 16-10		**8.00**		Daily Total
W 41-2011		**8.00**		Weekly Total
08:30		2.00	C204 - Beheer Energetic	Design: 1000 - [t1000]: Kan geen verbinding maken met de webserver.
10:30		3.00	MSLS09.BD.ALG - Sales trajecten	Design: 1002 - [t1002]: VISI onderzoeken
13:30		2.00	C204 - Beheer Energetic	Meet: 1001 - [t1001]: ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992

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1.2.3.6 Cash Flows

Using cash flow projections, the net present value of a project can be calculated by taking a series of expected future payments (negative values) and expected income (positive values) and to calculate the net present value (discounted) of them with a net present value rate. The net present value is also known as the net present worth (NPW). The net present value rate is also known as discount rate, advance interest rate or cost of capital.

The advantage of this method of determining the value of a project is that future developments are taken into account properly in determining the present value of the project.

The disadvantage of this method is the rather subjective nature of estimating future cash flows. It can also be difficult to estimate the net present value rate.

Concept

A cash flow is a flow of funds over a period according to an (adjustable) curve.

The determination of the cash flows in Invantive Estate is divided in two parts:
- determining the historical cash flows, and
- determining the future cash flows.

Cash flows at All Levels

A cash flow projection can be defined at all levels:
- Contract, for example, the supplying of a steel construction by the firm Derikx.
- Cost Category, for example, all steel work within a project.
- Roll up, for example, all consultancy within a project.
- Master roll up, for example, all costs within a project.
- Independent or sub-project, for example, a full building lease project.
- Master project, for example, a combination of a land and two building lease projects.
- Legal entity, for example all projects of the SPV ‘Projects South’.
- Company wide, namely all projects within the system.

Cross sections are possible at all levels, for example, all cash flows of a supplier or all cash flows for projects of a developer.

Historical Cash Flows

The historical cash flows consist of realized cash flows. A cash flow is achieved when an entry in the general ledger has actually led to a cash flow (payment or receipt). Only postings (invoices) that are paid or received are included as a historical cash flow.

Future Cash Flows

The volume of the future cash flows is the difference between the prognosis end of work 110 and the historical cash flows. This will ensure that the cash flow projections always match with the prognosis end work when using an automatic system for the determination of the cash flow.

Invantive Estate determines using the expandableCash Flow Projection Method 329 when a cash flow will occur.

The most common cash flow projection is ‘automatic worst case’. Other cash flow projection methods require manual input or are a variation on ‘automatic worst case’ by varying the cash flows in time based upon project specific risk variables or by projecting sales instead of cash flows in time.

Automatic Worst Case

The automatic worst case approach yields in almost all situations a realistic cash flow projection for projects in various stages of development:

- First concept with a budget outline and a schedule outline.
- A tangible development plan with a budget for each cost category and a schedule for each activity.
- A project in its implementation phase where part of the activities are already completed while others are carried out.
- A project in its final stage.

The automatically worst case approach chooses depending on the available information, an as detailed as possible planning of the cash flows. In descending degree of detail the following levels are used:

- Entering in general ledger (invoices)
- Revenues (sold / unsold) and orders
- Contract Budgets
- Budget
- Cost Type
- Project

At these levels period information is available, such as the planned start and completion date of a project, or the actual start date of a project. The automatic worst case approach will always use period information as accurately as possible. At all levels always a start and end date for the cash flow are defined. This will always be used when entered.

The volume between the prognosis end of work and the historical cash flows is divided over the period by a curve. By default, some common curves are included, for example, for ground and building lease. The desired curve shape can be specified at almost all levels. Normally, the curves are defined by thecost category 189 or by the budget 149. But if necessary, the curve can also be set at detail level.

Private curves can be used by entering a list of sampling points on the curve values into Codes 317. The curve values must lie in the range of 0 (0%, no cash flow) to 1,000,000 (100%, fully realized cash flow). The number of sampling points in the curves can be varied as desired and is usually a balance between computing time, storage space and precision. In practice, more than 30 sampling points do not add much extra details. Before adding your private curve first contact the vendor of Invantive Estate.

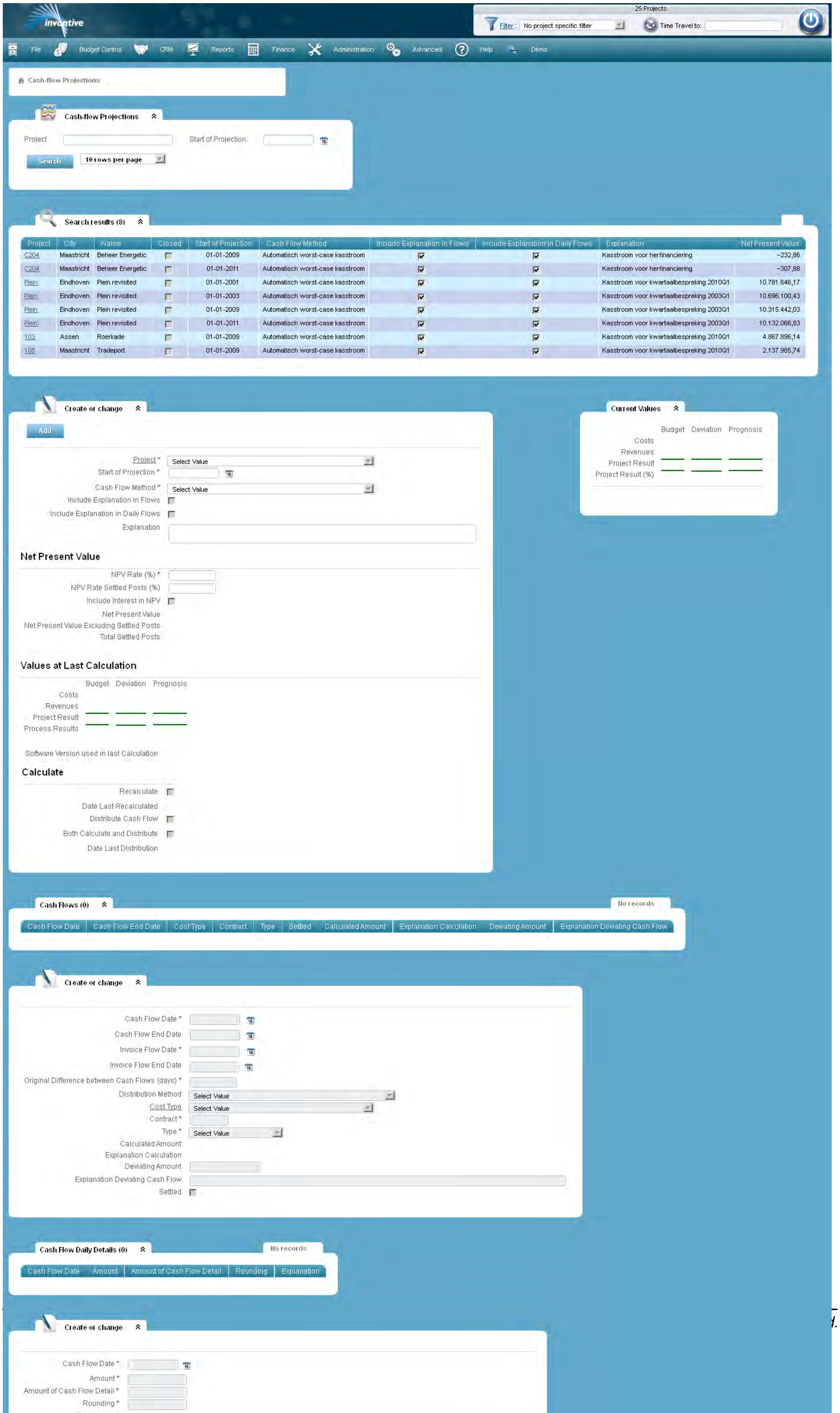
Cash Flow Projections

In this screen you can enter cash flow projections of a project per cost category.

Using these projections you can calculate the present net value of the project on the basis of cash flow projections. The calculation is done in two steps:

1. Calculating: determines the size of each flow, start and end dates and distribution method.
2. Dividing: allocates the cash flow to the days of the calendar.

The two steps allow you to manually adjust the calculated cash flows if desired.



Cash-flow Projections

Project

Start of Projection

Search results (8)

Project	City	Name	Closed	Start of Projection	Cash Flow Method	Include Explanation in Flows	Include Explanation in Daily Flows	Explanation	Net Present Value
C204	Maastricht	Beheer Energetic	☐	01-01-2009	Automatisch worst-case kasstroom	☑	☑	Kasstroom voor herfinanciering	-232,86
C204	Maastricht	Beheer Energetic	☐	01-01-2011	Automatisch worst-case kasstroom	☑	☑	Kasstroom voor herfinanciering	-307,88
Plein	Eindhoven	Plein revisited	☐	01-01-2001	Automatisch worst-case kasstroom	☑	☑	Kasstroom voor kwartaalbespreking 2010Q1	10.781.646,17
Plein	Eindhoven	Plein revisited	☐	01-01-2003	Automatisch worst-case kasstroom	☑	☑	Kasstroom voor kwartaalbespreking 2003Q1	10.696.100,43
Plein	Eindhoven	Plein revisited	☐	01-01-2009	Automatisch worst-case kasstroom	☑	☑	Kasstroom voor kwartaalbespreking 2003Q1	10.315.442,03
Plein	Eindhoven	Plein revisited	☐	01-01-2011	Automatisch worst-case kasstroom	☑	☑	Kasstroom voor kwartaalbespreking 2003Q1	10.132.066,83
103	Assen	Roerkade	☐	01-01-2009	Automatisch worst-case kasstroom	☑	☑	Kasstroom voor kwartaalbespreking 2010Q1	4.867.896,14
105	Maastricht	Tradeport	☐	01-01-2009	Automatisch worst-case kasstroom	☑	☑	Kasstroom voor kwartaalbespreking 2010Q1	2.137.985,74

Create or change

Project * Select Value
Start of Projection *
Cash Flow Method * Select Value
Include Explanation in Flows ☐
Include Explanation in Daily Flows ☐
Explanation

Net Present Value

NPV Rate (%) *
NPV Rate Settled Posts (%)
Include Interest in NPV ☐
Net Present Value
Net Present Value Excluding Settled Posts
Total Settled Posts

Values at Last Calculation

	Budget	Deviation	Prognosis
Costs			
Revenues			
Project Result			
Process Results			

Software Version used in last Calculation

Calculate

Recalculate ☐
Date Last Recalculated
Distribute Cash Flow ☐
Both Calculate and Distribute ☐
Date Last Distribution

Current Values

	Budget	Deviation	Prognosis
Costs			
Revenues			
Project Result			
Project Result (%)			

Cash Flows (0)

No records

Cash Flow Date	Cash Flow End Date	Cost Type	Contract	Type	Settled	Calculated Amount	Explanation Calculation	Deviating Amount	Explanation Deviating Cash Flow

Create or change

Cash Flow Date *
Cash Flow End Date
Invoice Flow Date *
Invoice Flow End Date
Original Difference between Cash Flows (days) *
Distribution Method Select Value
Cost Type Select Value
Contract *
Type * Select Value
Calculated Amount
Explanation Calculation
Deviating Amount
Explanation Deviating Cash Flow
Settled ☐

Cash Flow Daily Details (0)

No records

Cash Flow Date	Amount	Amount of Cash Flow Detail	Rounding	Explanation

Create or change

Cash Flow Date *
Amount *
Amount of Cash Flow Detail *
Rounding *

The meaning of the entry fields is:

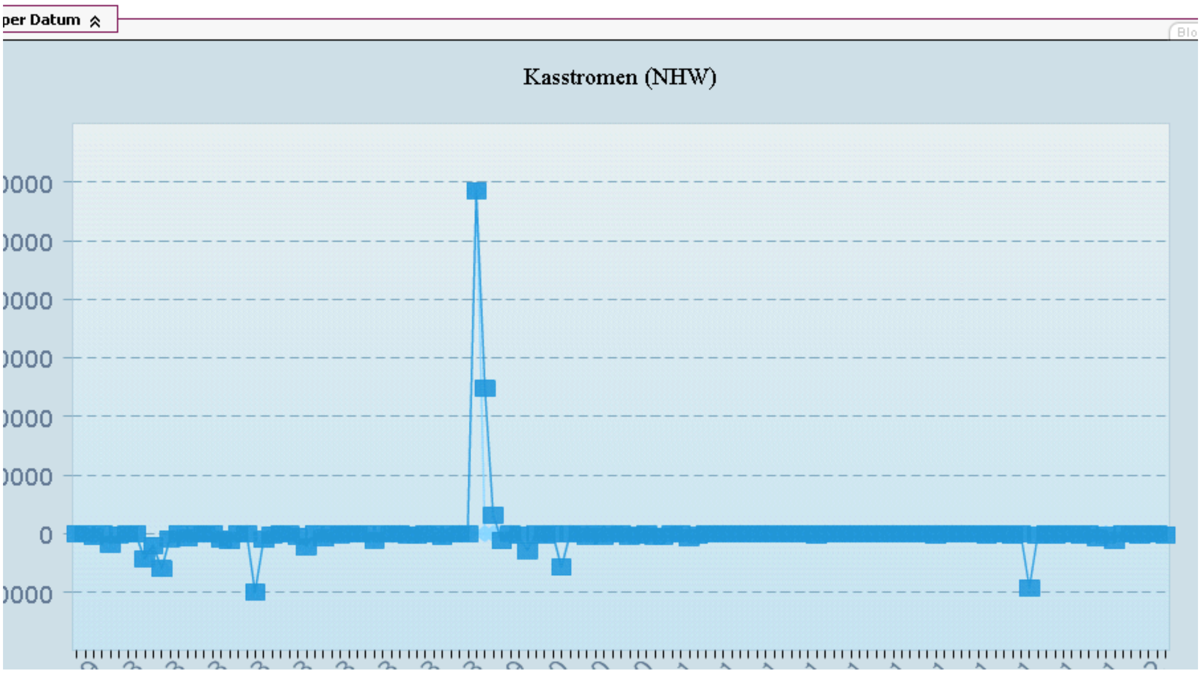
Project	The project which the latest estimate is part of.
Start of Projection	The starting date of the cash flow projection.
Cash Flow Method	The way cash flows are allocated to a period.
Include Explanation in Flows	When checked, the explanation will be included in the calculation of the cash flow.
Include Explanation in Daily Flows	When checked, the explanation will be included in the calculation of the daily cash flows.
Explanation	An informative explanation such as a reason why the 'Cash Flow Method' in question was chosen.
Net Present Value	
NPV Rate (%)	The percentage by which the present value (net value) of projected cash flows is calculated.
NPV Rate Settled Posts (%)	The percentage by which the present value of already paid/received amounts is calculated.
Include interest in NPV	The interest paid on loans is included in the NPV calculation if this option is checked.
Calculate	
Recalculate	The cash flow will be recalculated in the future when this option is checked.
Distribute Cash Flow	The cash flow will be allocated to the period starting with ‘Cash Flow Date’ and ends with ‘Cash Flow End Date’ if this option is checked.
Both Calculate and Distribute	The cash flow will be recalculated and distributed in the future if this option is checked.
Cash Flows	
Cash Flow Date	Shows the date the cash flow starts.
Cash Flow End Date	Displays the date when the cash flow ends.
Invoice Flow Date	Shows the date the invoice flow begins.
Invoice Flow End Date	Displays the date the invoice flow ends.
Original Difference between Cash Flows (days)	The initial difference in days between the invoice and the expected cash flow.
Distribution Method	The method by which the cash flow is distributed over the period.
Cost Type	The cost category on which is the cash flow is registered.
Contract	The contract ID to which the cash flow is related.
Type	Indicates what caused the cash flow. For example, this could be a contract, an invoice line, a budget, etc..
Deviating Amount	Here you can enter a deviating amount. For the NPV calculation this amount will be included in stead of the ‘Calculated Amount’.
Explanation Deviating Cash Flow	A possible explanation of the deviating cash flow.
Settled	Indicates that the cash flow already took place in the form of a receipt and/or a payment if the box is checked.
Cash Flow Daily Details	
Cash Flow Date	Shows the date the cash flow starts.
Amount	The cash flow amount from which the daily cash flow is derived.
Amount of Cash Flow Detail	The amount of the cash flow details per day or per period.
Rounding	The amount that will be added to the daily cash flow to compensate for rounding errors.
Explanation	An informative explanation for the daily cash flow amount.

The meaning of the other fields:

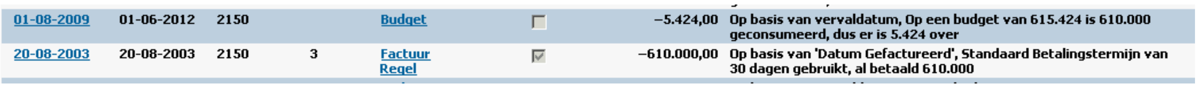
Project	The project which the latest estimate is part of.
Start of Projection	The starting date of the cash flow projection.
Net Present Value	
Net Present Value	The net present value calculated using the shared cash flow and the interest on the cash flow including the already settled contracts.
Net Present Value Excluding Settled Posts	De netto huidige waarde berekend met behulp van de verdeelde kasstroom en de rente op de kasstromen, exclusief de al afgewikkelde contracten.

Total Settled Posts	Total amount of the up to now settled contracts.
Values at Last Calculation	
Budget	The project budget.
Deviation	The difference between the project budget and the project prognosis.
Prognosis	The project prognosis.
Costs	The costs of a project.
Revenues	The revenues of the project.
Project Result	The revenues minus the costs.
Taken Result	Amount at this moment is already booked as loss or profit.
Software Version used in last Calculation	The software version that was used for the final calculation of the cash flow amount or its distribution. If a new software version is installed it is possible that the equation with old cash flow amounts and its distributions is polluted.
Calculate	
Date of last Recalculation	Date when the last recalculation took place.
Date Last Distribution	Date when the last distribution took place.
Cash Flows	
Calculated Amount	The cash flow amount.

The cash flows per date provide an overview of the historical and projected cash flows:



The cash flows are split into cash flow details. In the bottom part of the screen the cash flow details are shown. Each cash flow is supported with an explanation of the calculation:



01-08-2009	01-06-2012	2150		Budget	☐	−5.424,00	Op basis van vervaldatum, Op een budget van 615.424 is 610.000 geconsumeerd, dus er is 5.424 over
20-08-2003	20-08-2003	2150	3	Factuur Regel	☑	−610.000,00	Op basis van 'Datum Gefactureerd', Standaard Betalingstermijn van 30 dagen gebruikt, al betaald 610.000

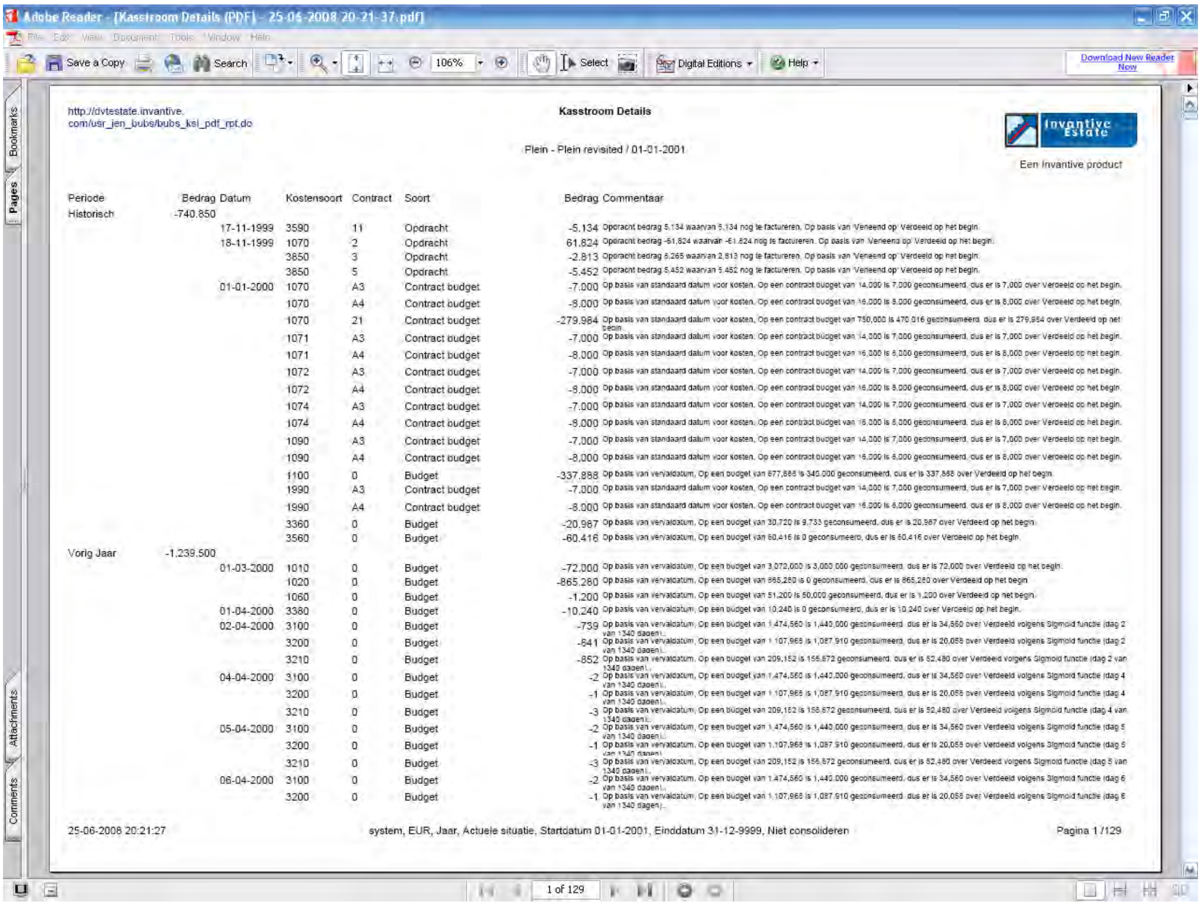
In the example above a cost budget of EUR 615,424 was expected. Meanwhile EUR 610,000 is invoiced and paid. According to the expected maturity of the budget, the remaining budget of Eur 5,424 will be used between August 1, 2009 and June 1, 2012.

Cash-flow Details

In this screen you can enter cash flow details or a cast flow.

Cashflow details report

This report provides details of cash flows per project again.



http://dvtestate.invantive.com/usr_jen_bubs/bubs_ksl_pdf_rpt.do

Kasstroom Details

Plein - Plein revisited / 01-01-2001

Een Invantive product

Periode	Bedrag	Datum	Kostensoort	Contract	Soort	Bedrag	Commentaar
Historisch	-740.850						
		17-11-1999	3590	11	Opdracht	-5.134	Opdracht bedrag 5,134 waarvan 5,134 nog te factureren. Op basis van 'Verleend op' Verdeeld op het begin.
		18-11-1999	1070	2	Opdracht	61.824	Opdracht bedrag -61,824 waarvan -61,824 nog te factureren. Op basis van 'Verleend op' Verdeeld op het begin.
			3850	3	Opdracht	-2.813	Opdracht bedrag 6,265 waarvan 2,813 nog te factureren. Op basis van 'Verleend op' Verdeeld op het begin.
			3850	5	Opdracht	-5.452	Opdracht bedrag 5,452 waarvan 5,452 nog te factureren. Op basis van 'Verleend op' Verdeeld op het begin.
		01-01-2000	1070	A3	Contract budget	-7.000	Op basis van standaard datum voor kosten. Op een contract budget van 14,000 is 7,000 geconsumeerd, dus er is 7,000 over Verdeeld op het begin.
			1070	A4	Contract budget	-8.000	Op basis van standaard datum voor kosten. Op een contract budget van 16,000 is 8,000 geconsumeerd, dus er is 8,000 over Verdeeld op het begin.
			1070	21	Contract budget	-279.984	Op basis van standaard datum voor kosten. Op een contract budget van 750,000 is 470,016 geconsumeerd, dus er is 279,984 over Verdeeld op het begin.
			1071	A3	Contract budget	-7.000	Op basis van standaard datum voor kosten. Op een contract budget van 14,000 is 7,000 geconsumeerd, dus er is 7,000 over Verdeeld op het begin.
			1071	A4	Contract budget	-8.000	Op basis van standaard datum voor kosten. Op een contract budget van 16,000 is 8,000 geconsumeerd, dus er is 8,000 over Verdeeld op het begin.
			1072	A3	Contract budget	-7.000	Op basis van standaard datum voor kosten. Op een contract budget van 14,000 is 7,000 geconsumeerd, dus er is 7,000 over Verdeeld op het begin.
			1072	A4	Contract budget	-8.000	Op basis van standaard datum voor kosten. Op een contract budget van 16,000 is 8,000 geconsumeerd, dus er is 8,000 over Verdeeld op het begin.
			1074	A3	Contract budget	-7.000	Op basis van standaard datum voor kosten. Op een contract budget van 14,000 is 7,000 geconsumeerd, dus er is 7,000 over Verdeeld op het begin.
			1074	A4	Contract budget	-8.000	Op basis van standaard datum voor kosten. Op een contract budget van 16,000 is 8,000 geconsumeerd, dus er is 8,000 over Verdeeld op het begin.
			1090	A3	Contract budget	-7.000	Op basis van standaard datum voor kosten. Op een contract budget van 14,000 is 7,000 geconsumeerd, dus er is 7,000 over Verdeeld op het begin.
			1090	A4	Contract budget	-8.000	Op basis van standaard datum voor kosten. Op een contract budget van 16,000 is 8,000 geconsumeerd, dus er is 8,000 over Verdeeld op het begin.
			1100	0	Budget	-337.888	Op basis van vervaldatum, Op een budget van 677,888 is 340,000 geconsumeerd, dus er is 337,888 over Verdeeld op het begin.
			1990	A3	Contract budget	-7.000	Op basis van standaard datum voor kosten. Op een contract budget van 14,000 is 7,000 geconsumeerd, dus er is 7,000 over Verdeeld op het begin.
			1990	A4	Contract budget	-8.000	Op basis van standaard datum voor kosten. Op een contract budget van 16,000 is 8,000 geconsumeerd, dus er is 8,000 over Verdeeld op het begin.
			3360	0	Budget	-20.987	Op basis van vervaldatum, Op een budget van 30,720 is 9,733 geconsumeerd, dus er is 20,987 over Verdeeld op het begin.
			3560	0	Budget	-60.416	Op basis van vervaldatum, Op een budget van 60,416 is 0 geconsumeerd, dus er is 60,416 over Verdeeld op het begin.
Vorig Jaar	-1.239.500						
		01-03-2000	1010	0	Budget	-72.000	Op basis van vervaldatum, Op een budget van 3,072,000 is 3,000,000 geconsumeerd, dus er is 72,000 over Verdeeld op het begin.
			1020	0	Budget	-865.280	Op basis van vervaldatum, Op een budget van 865,280 is 0 geconsumeerd, dus er is 865,280 over Verdeeld op het begin
			1060	0	Budget	-1.200	Op basis van vervaldatum, Op een budget van 51,200 is 50,000 geconsumeerd, dus er is 1,200 over Verdeeld op het begin.
		01-04-2000	3380	0	Budget	-10.240	Op basis van vervaldatum, Op een budget van 10,240 is 0 geconsumeerd, dus er is 10,240 over Verdeeld op het begin.
		02-04-2000	3100	0	Budget	-739	Op basis van vervaldatum, Op een budget van 1,474,560 is 1,440,000 geconsumeerd, dus er is 34,560 over Verdeeld volgens Sigmoid functie (dag 2 van 1340 dagen).
			3200	0	Budget	-641	Op basis van vervaldatum, Op een budget van 1,107,968 is 1,087,910 geconsumeerd, dus er is 20,058 over Verdeeld volgens Sigmoid functie (dag 2 van 1340 dagen).
			3210	0	Budget	-852	Op basis van vervaldatum, Op een budget van 209,152 is 156,672 geconsumeerd, dus er is 52,480 over Verdeeld volgens Sigmoid functie (dag 2 van 1340 dagen).
		04-04-2000	3100	0	Budget	-2	Op basis van vervaldatum, Op een budget van 1,474,560 is 1,440,000 geconsumeerd, dus er is 34,560 over Verdeeld volgens Sigmoid functie (dag 4 van 1340 dagen).
			3200	0	Budget	-1	Op basis van vervaldatum, Op een budget van 1,107,968 is 1,087,910 geconsumeerd, dus er is 20,058 over Verdeeld volgens Sigmoid functie (dag 4 van 1340 dagen).
			3210	0	Budget	-3	Op basis van vervaldatum, Op een budget van 209,152 is 156,672 geconsumeerd, dus er is 52,480 over Verdeeld volgens Sigmoid functie (dag 4 van 1340 dagen).
		05-04-2000	3100	0	Budget	-2	Op basis van vervaldatum, Op een budget van 1,474,560 is 1,440,000 geconsumeerd, dus er is 34,560 over Verdeeld volgens Sigmoid functie (dag 5 van 1340 dagen).
			3200	0	Budget	-1	Op basis van vervaldatum, Op een budget van 1,107,968 is 1,087,910 geconsumeerd, dus er is 20,058 over Verdeeld volgens Sigmoid functie (dag 5 van 1340 dagen).
			3210	0	Budget	-3	Op basis van vervaldatum, Op een budget van 209,152 is 156,672 geconsumeerd, dus er is 52,480 over Verdeeld volgens Sigmoid functie (dag 5 van 1340 dagen).
		06-04-2000	3100	0	Budget	-2	Op basis van vervaldatum, Op een budget van 1,474,560 is 1,440,000 geconsumeerd, dus er is 34,560 over Verdeeld volgens Sigmoid functie (dag 6 van 1340 dagen).
			3200	0	Budget	-1	Op basis van vervaldatum, Op een budget van 1,107,968 is 1,087,910 geconsumeerd, dus er is 20,058 over Verdeeld volgens Sigmoid functie (dag 6 van 1340 dagen).

25-06-2008 20:21:27 system, EUR, Jaar, Actuele situatie, Startdatum 01-01-2001, Einddatum 31-12-9999, Niet consolideren Pagina 1 /129

Cash Flows per Cost Category

Enter text here.

1.2.4 CRM

This chapter contains information about the functions which can be found under menu 'CRM'.. In this menu you can find Persons and Organizations.

1.2.4.1 Organizations

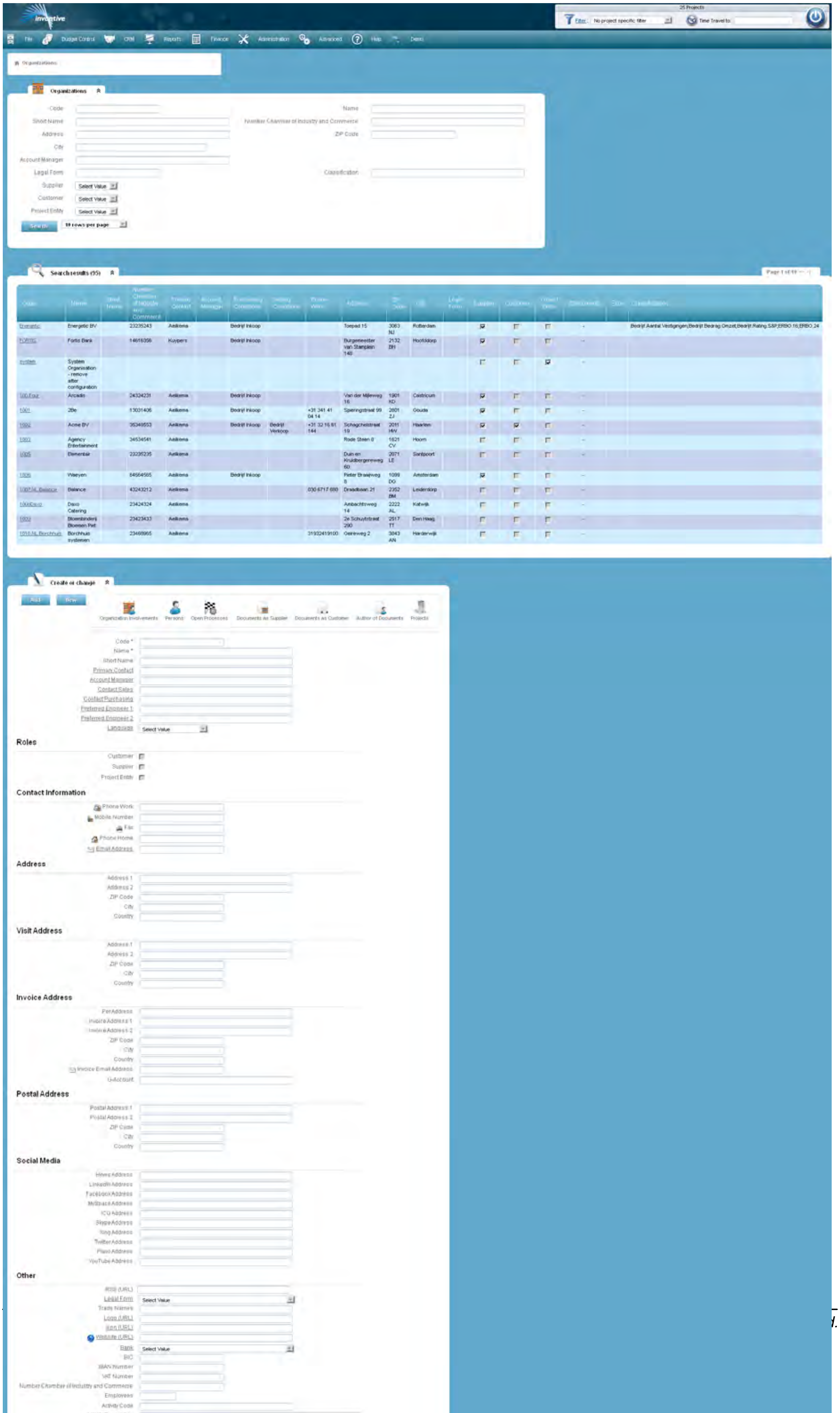
Enter text here.

Organizations

This screen allows you to record and change organizations.

An organization can be used as a project customer, an order taker (supplier), a counterparty of invoices or a project entity of a project. Furthermore, you can use an organization to register other involved organizations.

A supplier is a subcontractor or counterparty who can fulfill an order. Occasionally you will find organizations that in the sense of word are not a real organization. These are the suppliers that are used to allocate costs to, where the costs are not simply allocatable to a legal person. For example, a posting through the memorial to charge general expenses such as property, heating and security to a project.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Organizations
Organizations
Code
Short Name
Address
City
Account Manager
Legal Form
Supplier Select Value
Customer Select Value
Project Entity Select Value
Name
Number Chamber of Industry and Commerce
ZIP Code
Classification
Search
10 rows per page
Search results (95)
Page 1 of 10

Code	Name	Short Name	Number Chamber of Industry and Commerce	Primary Contact	Account Manager	Purchasing Conditions	Selling Conditions	Phone Work	Address	ZIP Code	City	Legal Form	Supplier	Customer	Project Entity	Employees	Size	Classification
Energetic	Energetic BV		23235243	Aelkema		Bedrijf Inkoop			Toepad 15	3063 NJ	Rotterdam		☑	☐	☐	-		Bedrijf.Aantal Vestigingen,Bedrijf.Bedrag Omzet,Bedrijf.Rating.S&P,ERBO.16,ERBO.24
FORTIS	Fortis Bank		14616356	Kuypers		Bedrijf Inkoop			Burgemeester van Stamplein 148	2132 BH	Hoofddorp		☑	☐	☐	-		
system	System Organisation - remove after configuration												☐	☐	☑	-		
100.Four	Arcadis		24324231	Aelkema		Bedrijf Inkoop			Van der Mijleweg 16	1901 KD	Castricum		☑	☐	☐	-		
1001	2Be		13031406	Aelkema		Bedrijf Inkoop		+31 341 41 04 14	Speringstraat 99	2801 ZJ	Gouda		☑	☐	☐	-		
1002	Acme BV		35349553	Aelkema		Bedrijf Inkoop	Bedrijf Verkoop	+31 32 16 81 144	Schagchelstraat 19	2011 HW	Haarlem		☑	☑	☐	-		
1003	Agency Entertainment		34534541	Aelkema					Rode Steen 8	1621 CV	Hoorn		☐	☐	☐	-		
1005	Elementair		23235235	Aelkema					Duin en Kruidbergerweg 60	2071 LE	Santpoort		☐	☐	☐	-		
1006	Waeyen		64564565	Aelkema		Bedrijf Inkoop			Pieter Braaijweg 8	1099 DG	Amsterdam		☑	☐	☐	-		
1007.NL.Balance	Balance		43243212	Aelkema				030 6717 688	Draadbaan 21	2352 BM	Leiderdorp		☐	☐	☐	-		
1008Daxo	Daxo Catering		23424324	Aelkema					Ambachtsweg 14	2222 AL	Katwijk		☐	☐	☐	-		
1009	Bloembinderij Bloemen Piet		23423433	Aelkema					2e Schuytstraat 290	2517 TT	Den Haag		☐	☐	☐	-		
1010.NL.Borchhuis	Borchhuis systemen		23468965	Aelkema				31932419100	Oeireweg 2	3843 AN	Harderwijk		☐	☐	☐	-		

Create or change
Add
New
Organization Involvements
Persons
Open Processes
Documents as Supplier
Documents as Customer
Author of Documents
Projects
Code *
Name *
Short Name
Primary Contact
Account Manager
Contact Sales
Contact Purchasing
Preferred Engineer 1
Preferred Engineer 2
Language Select Value
Roles
Customer ☐
Supplier ☐
Project Entity ☐
Contact Information
Phone Work
Mobile Number
Fax
Phone Home
Email Address
Address
Address 1
Address 2
ZIP Code
City
Country
Visit Address
Address 1
Address 2
ZIP Code
City
Country
Invoice Address
Per Address
Invoice Address 1
Invoice Address 2
ZIP Code
City
Country
Invoice Email Address
G-Account
Postal Address
Postal Address 1
Postal Address 2
ZIP Code
City
Country
Social Media
Hyves Address
LinkedIn Address
Facebook Address
MySpace Address
ICQ Address
Skype Address
Xing Address
Twitter Address
Plaxo Address
YouTube Address
Other
RSS (URL)
Legal Form Select Value
Trade Names
Logo (URL)
Icon (URL)
Website (URL)
Bank Select Value
BIC
IBAN Number
VAT Number
Number Chamber of Industry and Commerce
Employees
Activity Code

The meaning of the entry fields is:

Code	The code with which the organization is identified.
Name	The name of the organization.
Short Name	The abbreviated name of the organization.
Primaire Contactpersoon	First contact within the organization. Normally this is an employee of the organization.
Salesman	The person who is responsible for the sales to the organization. This will be the account manager if no other persons are assigned.
Contact Sales	Sales contact of the organization.
Contact Purchasing	Purchasing contact of the organization.
Language	Reference to a language as registered in Languages 323.
Roles	
Customer	Can be used in projects as a customer.
Supplier	Can be used as a supplier when entering new orders in Orders 65 or when entering new last estimates in Last Estimates 67. Do not check if the supplier is only used to relate realization figures based on invoice lines, for example, for artificial suppliers for results taken.
Project entity	Can be used as entities in projects.
Preferred Engineer 1	The name of a preferred engineer as registered in Persons 97.
Preferred Engineer 2	The name of an alternative preferred engineer as registered in Persons 97.
Contact Information	
Phone Work	The telephone number where the organization can be reached at work.
Mobile Number	The mobile number where the organization can be reached.
Fax	The fax number of the organization.
Home	The telephone number where the organization can be reached at home.
Email Address	The e-mail address of the organization.
Address	
Address 1	The address of the organization.
Address 2	A second address line.
Zip Code	The zip code.
City	The place where the organization is located.
Country	The country where the organization is located.
Visit Address	
Address 1	The visit address of the organization.
Address 2	A second visit address line.
Zip Code	The zip code of the visit address.
City	The city of the visitor address.
Country	The country of the visitor address.
Invoice Address	
Per Address	Option to use an aberrant invoice address that does not belong to the organization. For example, an address of the main office or of an administrative office.
Invoice Address 1	Address that is used for invoicing.
Invoice Address 2	Alternative address that can be used for invoicing.
Zip Code	The zip code of the invoice address.
City	The city of the invoice address.
Country	The country of the invoice address.
Invoice Email Address	The e-mail address which is used for billing.
G account	The G account number of the organization. A G-account is a blocked bank account that can be used by contractors to pay income taxes (with or without VAT) of their employees to the tax authorities or to subcontractors. From a G account you cannot make other payments. The account protects parties against defaults of wage taxes.
Postal Address	
Postal Address 1	Postal address of the organization.
Postal Address 2	Second address line.

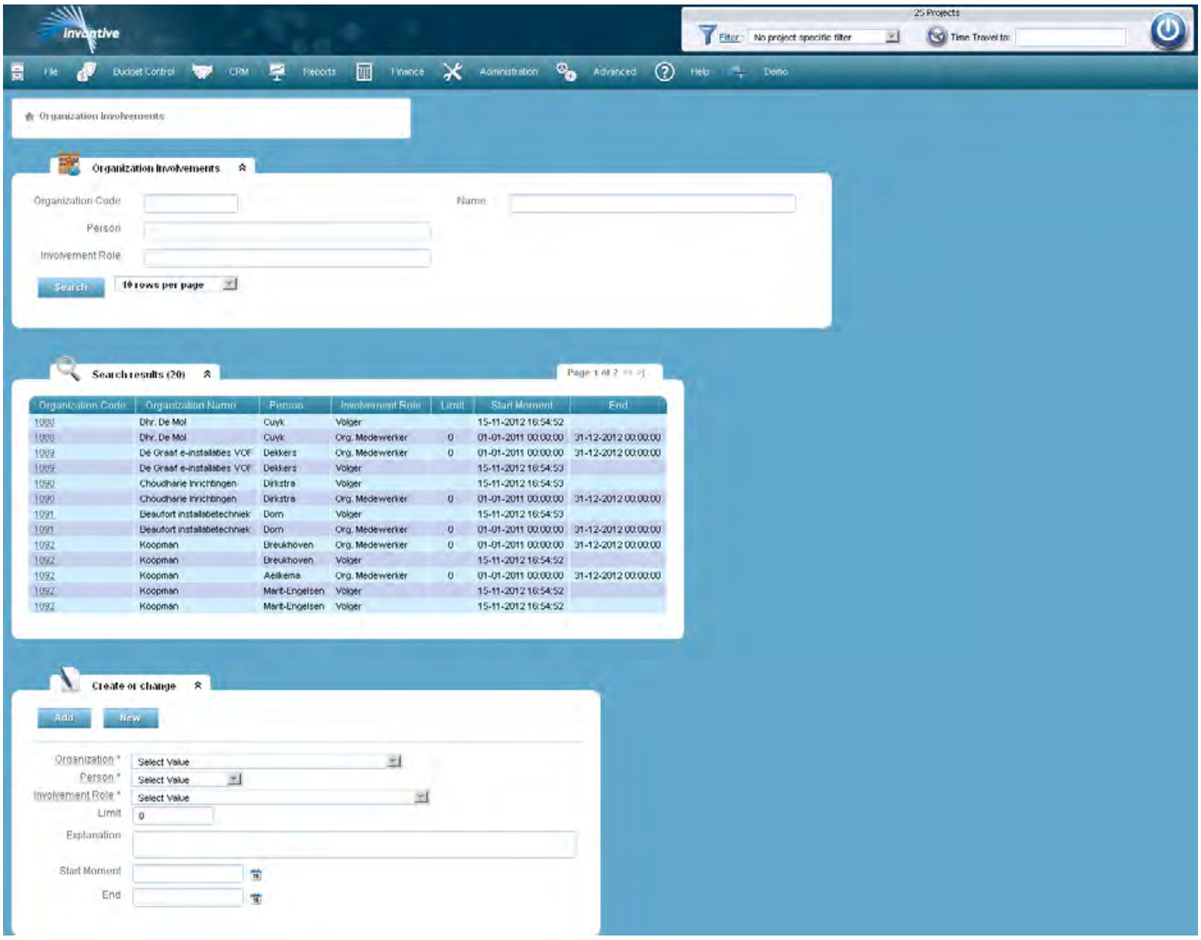
Zip Code	The zipcode of the postal address.
City	The city of the postal address.
Country	The country of the postal address.
Other	
Legal Form	Reference to a legal form as registered in Legal Forms 197.
Trade Names	Trade Names that the organization uses.
Logo (URL)	The Internet address where the logo can be requested. The logo is after 'Update Contacts' also visible in Microsoft Outlook. The resolution for Microsoft Outlook should preferably be at least 72x72 pixels.
Website (URL)	The Internet address of the website.
IBAN Number	The 'Internationaal Banc Account Number' of the organization. The IBAN identifies an individual bank account and is used in cross border payments.
VAT Number	The VAT number of the organization that is intended to settle the VAT with the tax authorities.
Number C. of C.	The number with which the organization is registered at the Chamber of Commerce.
Employees	The number of employees of the organization.
Activiteitscode	The code that indicates the kind of economic activity of the organization such as 'NAICS' encoding. NAICS is an abbreviation for North American Industry Classification System and was introduced in 1997. NAICS offered enhanced coverage of the service sector, relative to SIC (Standard Industrial Classification). The system is designed to be largely compatible with the United Nations Statistical Office's International Standard Industrial Classification System (ISIC). Versions are released every five years.
Activity Description	Description of the activity of the organization.
Date Established	The date of creation of the organization as a legal entity.
Repealed	Potential date on which the organization was dissolved as a legal entity.
Date of Last Review	The date the last review of the data of the organization took place. The date of last review provides an indication of the reliability of the data. Usually when the data becomes older, it will be less reliable.
Next Review	The date the next review of the data of the organization is planned.
VAT Code	Reference to a VAT code as registered in VAT codes 183.
Purchasing Conditions	Purchasing conditions as registered in Conditions 212.
Selling Conditions	Selling conditions as registered in Conditions 212.
Remarks	Any additional information about the organization can be included in this field.
IP Address List	List of IP addresses that are used by the organization.
Documents	Linked documents, see Linking Documents 29.
Classifications	
Classification	The class in which the organization can be classified. Some examples of classes in which organizations can be classified are: construction; accounting offices; retailing etc.
Relationships	
Relationship Type	The kind of relationship that an organization has with 'other organizations'. For example, this could be: in competition with; gets delivered by; majority of shares owned by; etc..
Related Organization	Indicates to what other organization(s) the organization is related.
Weight	The importance of the related organization in this type of relationship. The weight is held in a relationship, for example, for shares etc.

The significance of the action buttons:

Invoice Lines	Opens the screen containing all invoice lines of the selected organization.
Organization Involvements	Opens the screen containing participations of the organization.
Persons	Opens the screen containing the people of the organization.
Open Processes	Opens the screen containing the open processes of the organization.
Documents as Supplier	Opens the screen containing the documents of the organization in the role of the supplier.
Documents as Customer	Opens the screen containing the documents of the organization in the role of the customer.
Author of Document	Opens the screen containing the documents of the organization in the role of the author.
Projects	Opens the screen containing the projects of the organization.

Organization Involvements

In this screen you can register and change organization involvements.



Filter: No project specific filter

Organization Code
Name
Person
Involvement Role
10 rows per page

Search results (20)

Page 1 of 2

Organization Code	Organization Name	Person	Involvement Role	Limit	Start Moment	End
1088	Dhr. De Mol	Cuyk	Volger		15-11-2012 16:54:52	
1088	Dhr. De Mol	Cuyk	Org. Medewerker	0	01-01-2011 00:00:00	31-12-2012 00:00:00
1089	De Graaf e-installaties VOF	Dekkers	Org. Medewerker	0	01-01-2011 00:00:00	31-12-2012 00:00:00
1089	De Graaf e-installaties VOF	Dekkers	Volger		15-11-2012 16:54:53	
1090	Choudharie Inrichtingen	Dirkstra	Volger		15-11-2012 16:54:53	
1090	Choudharie Inrichtingen	Dirkstra	Org. Medewerker	0	01-01-2011 00:00:00	31-12-2012 00:00:00
1091	Beaufort installatietechniek	Dom	Volger		15-11-2012 16:54:53	
1091	Beaufort installatietechniek	Dom	Org. Medewerker	0	01-01-2011 00:00:00	31-12-2012 00:00:00
1092	Koopman	Breukhoven	Org. Medewerker	0	01-01-2011 00:00:00	31-12-2012 00:00:00
1092	Koopman	Breukhoven	Volger		15-11-2012 16:54:52	
1092	Koopman	Aeikema	Org. Medewerker	0	01-01-2011 00:00:00	31-12-2012 00:00:00
1092	Koopman	Marit-Engelsen	Volger		15-11-2012 16:54:52	
1092	Koopman	Marit-Engelsen	Volger		15-11-2012 16:54:52	

Organization * Select Value
Person * Select Value
Involvement Role * Select Value
Limit 0
Explanation
Start Moment
End

The meaning of the entry fields is:

Organization	Reference to an organization as registered in Organizations 93.
Person	Reference to a person as registered in Persons 97.
Involvement Role	The role the person performs in relation to the organization.
Limit	Deviating limit used for managing w orkflow transitions.

1.2.4.2 Persons

Enter text here.

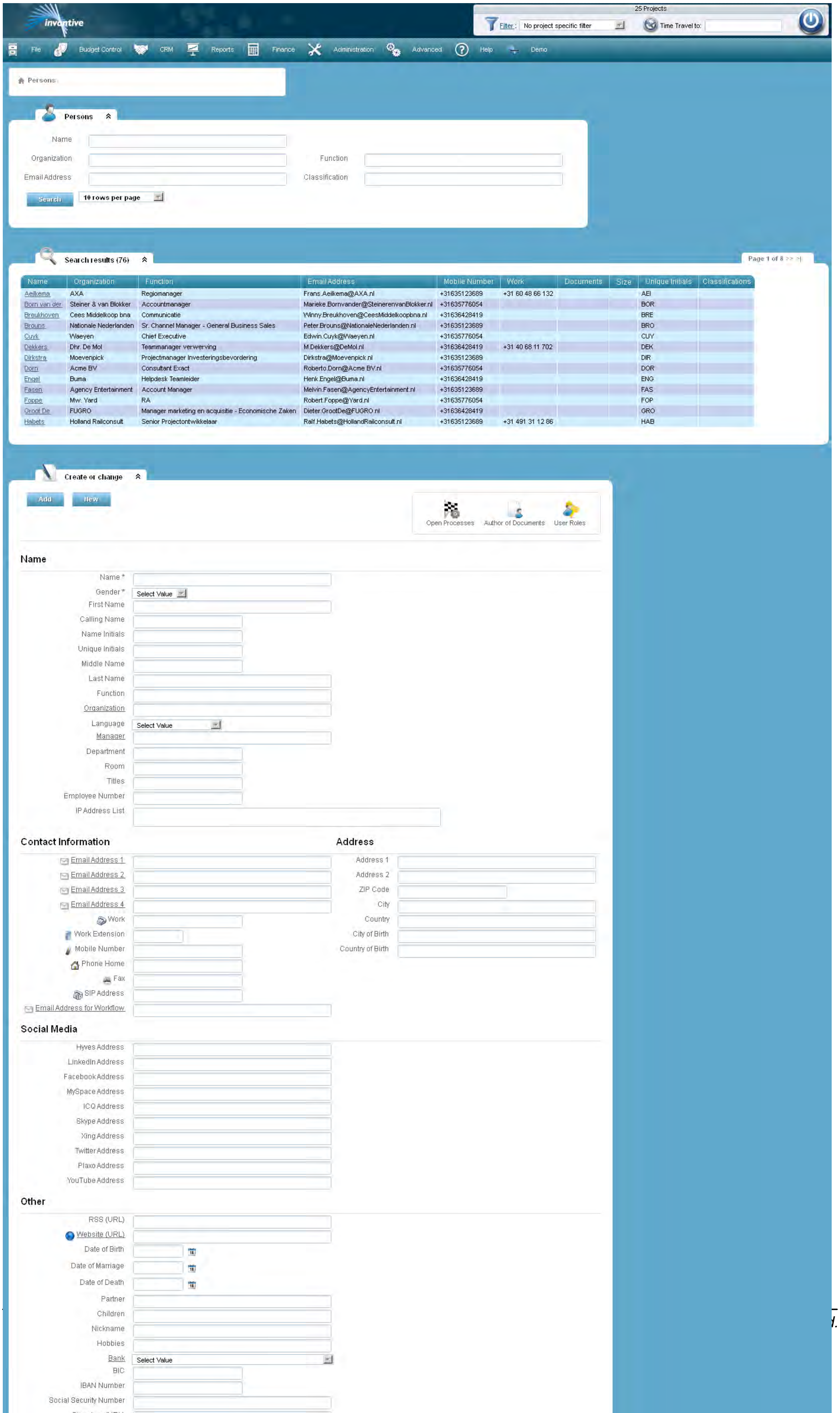
Persons

This screen lets you record and people change.

A person is a physical person who makes use ofInvantive Estate (a ‘user’) or from who data is registered in Invantive Estate. A person can be an employee of your organization, but also a relationship with a supplier or a private individual.

Persons with a username can use the application. However, to use reports or screens, they need to get roles (see Role Authorisations 159) and possibly get access to projects (see Project Authorisations 157).

Note that a special user named ‘system’ exists. This user normally is solely used to install the application or its newer versions and to initially create the first users. This user cannot be deleted and has unlimited access to all screens and information.


invantive
25 Projects
Filter : No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Persons
Persons
Name
Organization
Function
Email Address
Classification
Search
10 rows per page
Search results (76)
Page 1 of 8 >> >|
Create or change
Add
New
Open Processes
Author of Documents
User Roles
Name
Name *
Gender *
Select Value
First Name
Calling Name
Name Initials
Unique Initials
Middle Name
Last Name
Function
Organization
Language
Select Value
Manager
Department
Room
Titles
Employee Number
IP Address List
Contact Information
Email Address 1
Email Address 2
Email Address 3
Email Address 4
Work
Work Extension
Mobile Number
Phone Home
Fax
SIP Address
Email Address for Workflow
Address
Address 1
Address 2
ZIP Code
City
Country
City of Birth
Country of Birth
Social Media
Hyves Address
LinkedIn Address
Facebook Address
MySpace Address
ICQ Address
Skype Address
Xing Address
Twitter Address
Plaxo Address
YouTube Address
Other
RSS (URL)
Website (URL)
Date of Birth
Date of Marriage
Date of Death
Partner
Children
Nickname
Hobbies
Bank
Select Value
BIC
IBAN Number
Social Security Number

Name	Organization	Function	Email Address	Mobile Number	Work	Documents	Size	Unique Initials	Classifications
Aeilkema	AXA	Regiomanager	Frans.Aeilkema@AXA.nl	+31635123689	+31 60 48 66 132			AEI	
Born van der	Steiner & van Blokker	Accountmanager	Marieke.Bornvander@SteinerenvanBlokker.nl	+31635776054				BOR	
Breukhoven	Cees Middelkoop bna	Communicatie	Winny.Breukhoven@CeesMiddelkoopbna.nl	+31636428419				BRE	
Brouns	Nationale Nederlanden	Sr. Channel Manager - General Business Sales	Peter.Brouns@NationaleNederlanden.nl	+31635123689				BRO	
Cuyk	Waeyen	Chief Executive	Edwin.Cuyk@Waeyen.nl	+31635776054				CUY	
Dekkers	Dhr. De Mol	Teammanager verwerving	M.Dekkers@DeMol.nl	+31636428419	+31 40 68 11 702			DEK	
Dirkstra	Moevenpick	Projectmanager Investeringsbevordering	Dirkstra@Moevenpick.nl	+31635123689				DIR	
Dorn	Acme BV	Consultant Exact	Roberto.Dorn@Acme BV.nl	+31635776054				DOR	
Engel	Buma	Helpdesk Teamleider	Henk.Engel@Buma.nl	+31636428419				ENG	
Fasen	Agency Entertainment	Account Manager	Melvin.Fasen@AgencyEntertainment.nl	+31635123689				FAS	
Foppe	Mw. Yard	RA	Robert.Foppe@Yard.nl	+31635776054				FOP	
Groot De	FUGRO	Manager marketing en acquisitie - Economische Zaken	Dieter.GrootDe@FUGRO.nl	+31636428419				GRO	
Habets	Holland Railconsult	Senior Projectontwikkelaar	Ralf.Habets@HollandRailconsult.nl	+31635123689	+31 491 31 12 86			HAB	

The meaning of the entry fields is:

Name	
Name	The name of the person.
Gender	The gender of the person.
First Name	The first name.
Initials	Initials of the name, for example 'J.E.'.
Unique Initials	The unique abbreviation of the name. The initials are used in reports or in screens when there is not enough space available to show the whole name.
Middle Name	Middle name of the name, for example 'van de'.
Surname	Surname.
Function	The function of the person within the company.
Organization	The organization where the person is employed.
Business	The organization where the person is employed, see Organizations 93.
Language	Reference to a language as registered in Languages 323.
Manager	The manager or supervisor of the person.
Department	The department to which the person belongs.
Room	The room where the person has its workplace.
Titles	Possible titles of the individual.
Employee Number	Identification number of the person within the organization where the person is employed.
IP Address List	List of IP addresses used by this person.
Contact Information	
Email address 1	The email address of the person.
Email Address 2	A second alternative email address of the person.
Email Address 3	A second alternative email address of the person.
Email Address 4	A fourth alternative email address of the person.
Work	The telephone number of the person at work.
Work Extension	The extension number of the person at work.
Mobile Number	The mobile number of the person.
Home	The phone number where the person can be reached at home.
Fax	The fax number of the person.
SIP Address	Het SIP address of the person
Email Address for Workflow	The email address receiving the emails that are generated by the workflow . The application uses this email address in case it needs to send messages to the user.
Address	
Address 1	Address of the person (for example, street and house number)
Address 2	Extra address line, in case needed.
Zip Code	Postal code.
City	Place of residence
Country	Country of residence.
City of Birth	City of birth.
Country of Birth	Country where the person was born.
Social Media	
Hyves Address	Het Hyves address of the person.
LinkedIn Address	Het LinkedIn address of the person.
Facebook Address	Het Facebook address of the person.
MySpace Address	Het MySpace address of the person.
ICQ Address	Het ICQ address of the person.
Skype Address	Het Skype address of the person.
Xing Address	Het Xing address of the person.
Twitter Address	Het Twitter address of the person.
Plaxo Address	Het Plaxo address of the person.
YouTube Address	Het YouTube address of the person.
Other	
Website (URL)	The URL of the personal website.

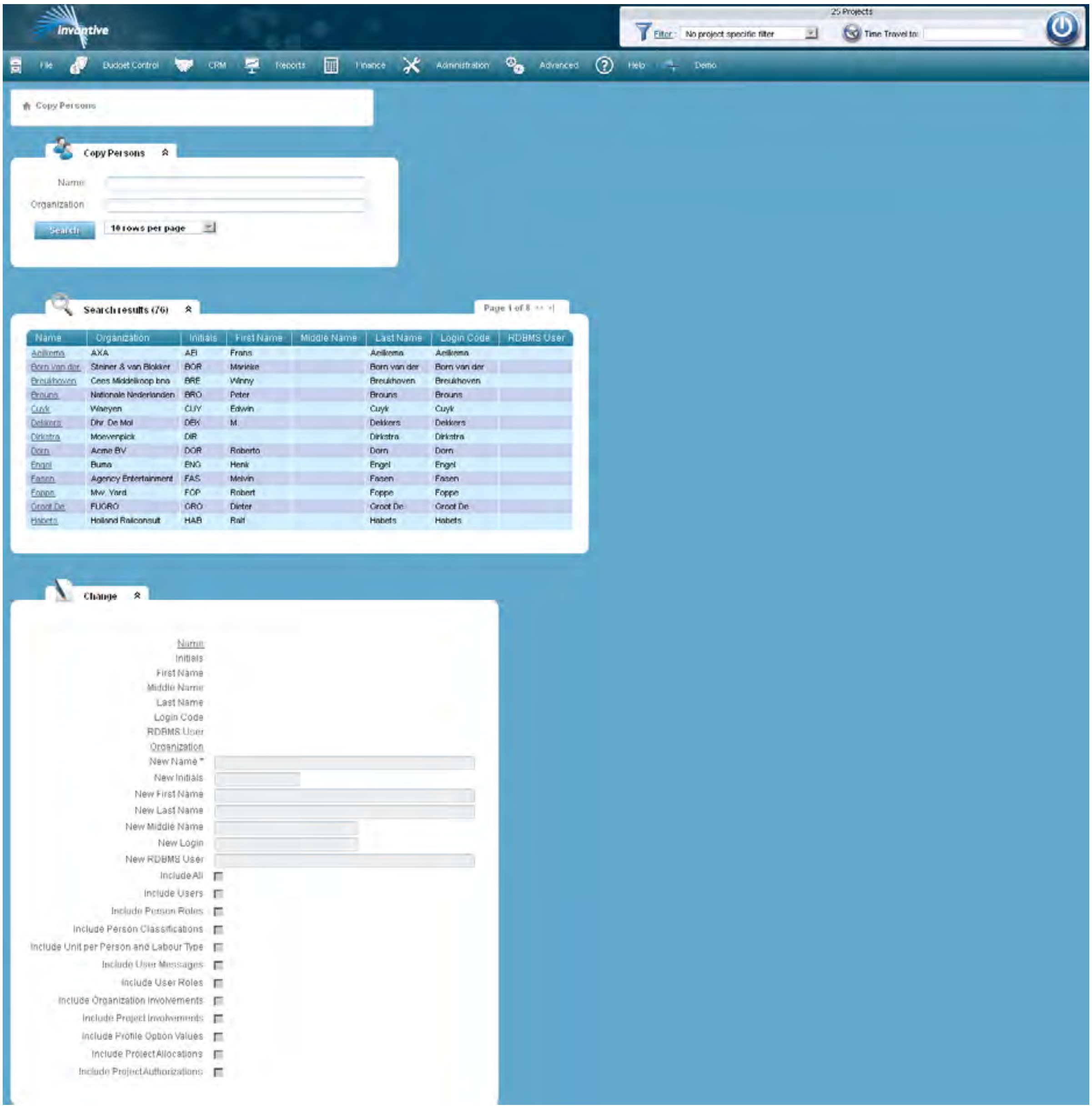
Date of Birth	The date of birth of the user.
Wedding Date	The date of the last marriage.
Date of Death	The date of death.
Partner	The name of the partner.
Children	The names of any children, separated by a randomly chosen separator.
Nickname	The nickname.
Hobbies	The hobbies.
IBAN Number	The IBAN of the bank account of the person.
Social Security Number	The SSN is a unique personal number. It is used for identification and tax purposes. The Social Security Number consists of 9 digits. Unlike many similar numbers, no check digit is utilized.
Signature (URL)	The Internet address of the image of the signature.
Passport Photo (URL)	The URL of the passport photo of the person. This URL can be used in ‘online directories’. The passport photo is after ‘Update Contacts’ also visible in Microsoft Outlook. The resolution for Microsoft Outlook should preferably be at least 72x72 pixels.
RDBMS User	The RDBMS user name associated with this Invantive Estate user. Is used to automatically log in when you use your own reporting software.
Internal Rate	The internal rate of the person.
Working Schedule	The working schedule of the person, see Working Schedules 175.
Date of Last Review	The date the last review of the person took place. The date of last review provides an indication of the reliability of the data. Usually when the data becomes older, it will be less reliable.
Remarks	Free text box where notes on the person can be added.
Documents	Linked documents, see Linking Documents 29.
Allow Emails	When checked, the person authorized to unsolicited commercial emails.
Date Emails Allowed	The date the person has given permission for unsolicited commercial emails.
Emails Allowed Evidence	The evidence in the form of an IP address, a URL or a text showing that the person has given permission for unsolicited commercial emails.
Classification	The classification of the process. A classification is a label that can be linked to a project, an organization, a process, a document or a person. Using these labels you can find your information more efficient.

The significance of the action buttons:

Open Processes	Opens a window with all the processes whose process holder is the person selected.
Author of Document	Opens a window with all the documents whose author is the person selected.
User Roles	Opens the screen containing all user roles of the selected person.

Copy People

In this screen you can copy the settings that are associated with an existing Invantive Estate user to a new user. In this way you can efficiently add new users in Invantive Estate.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Copy Persons
Copy Persons
Name
Organization
Search
10 rows per page
Search results (76)
Page 1 of 8
Change
Name
Initials
First Name
Middle Name
Last Name
Login Code
RDBMS User
Organization
New Name *
New Initials
New First Name
New Last Name
New Middle Name
New Login
New RDBMS User
Include All
Include Users
Include Person Roles
Include Person Classifications
Include Unit per Person and Labour Type
Include User Messages
Include User Roles
Include Organization Involvements
Include Project Involvements
Include Profile Option Values
Include ProjectAllocations
Include ProjectAuthorizations

Name	Organization	Initials	First Name	Middle Name	Last Name	Login Code	RDBMS User
Acilkema	AXA	AEI	Frans		Acilkema	Acilkema	
Born van der	Steiner & van Blokker	BOR	Marieke		Born van der	Born van der	
Breukhoven	Cees Middelkoop bna	BRE	Winny		Breukhoven	Breukhoven	
Brouns	Nationale Nederlanden	BRO	Peter		Brouns	Brouns	
Cuyk	Waeyen	CUY	Edwin		Cuyk	Cuyk	
Dekkers	Dhr. De Mol	DEK	M.		Dekkers	Dekkers	
Dirkstra	Moevenpick	DIR			Dirkstra	Dirkstra	
Dorn	Acme BV	DOR	Roberto		Dorn	Dorn	
Engel	Buma	ENG	Henk		Engel	Engel	
Fasen	Agency Entertainment	FAS	Melvin		Fasen	Fasen	
Foppe	Mw. Yard	FOP	Robert		Foppe	Foppe	
Groot De	FUGRO	GRO	Dieter		Groot De	Groot De	
Habets	Holland Railconsult	HAB	Ralf		Habets	Habets	

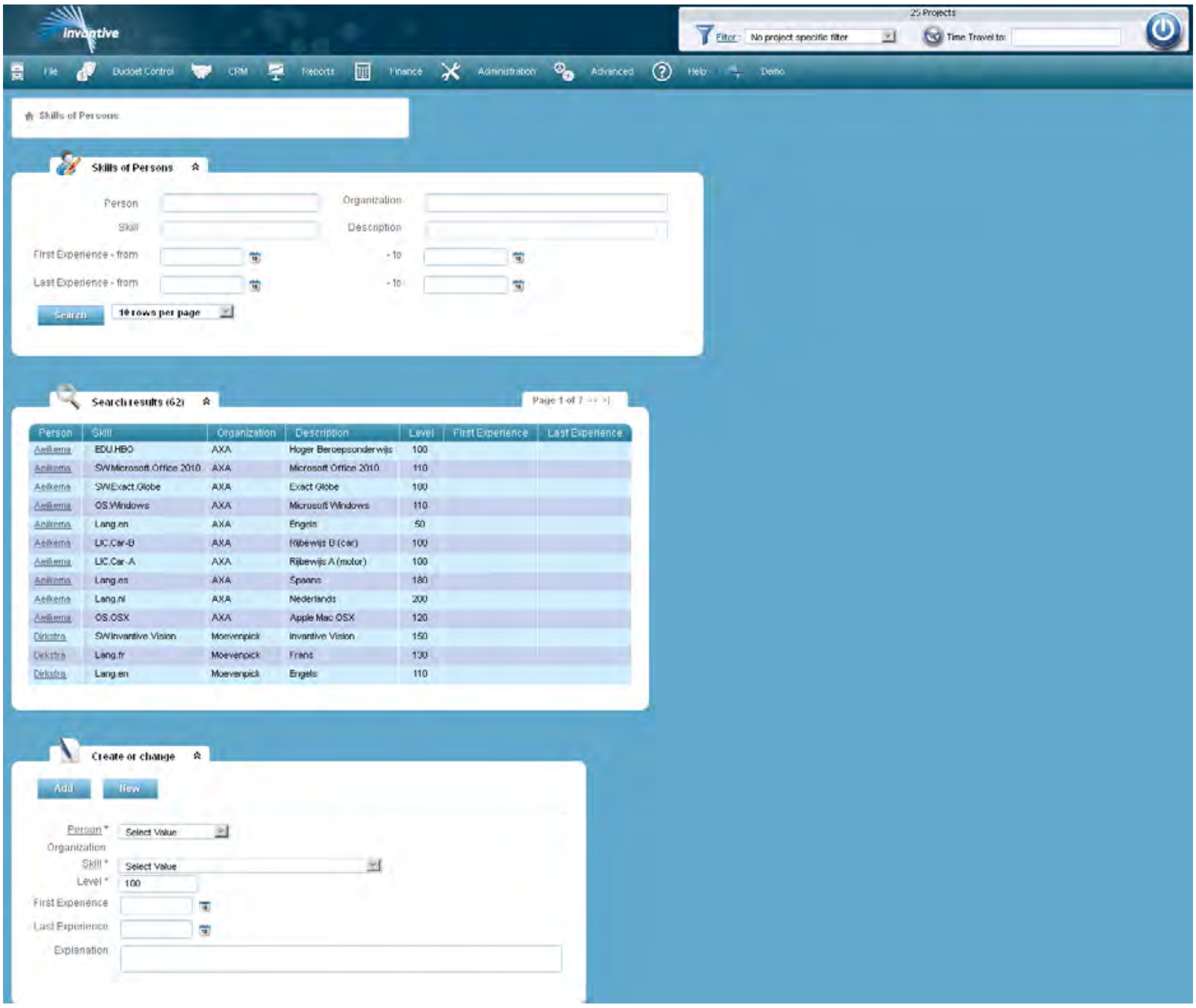
The meaning of the entry fields is:

New Name	The name of the new user.
New Initials	The initials of the new user.
New First Name	The first name of the new user.
New Last Name	The last name of the new user.
New Middle Name	The possible middle name in the name of the new user.
New Login	The username of the new user.
New RDBMS User	The new RDBMS user that is linked to the Invantive Estate user. The RDBMS user is used to automatically log on reporting software.
Include All	If checked, all items listed below will be copied.
Include Users	If checked, then the users will be copied.
Include Person Roles	If checked, then the person roles will be copied.
Include person classifications	If checked, then the person classifications will be copied.
Include Unit per Person and Labor Type	If checked, the unit per person and labor type will be copied.
Include User Roles	If checked, then the user roles will be copied.
Include Organization Involvements	If checked, then the organization involvements will be copied.

Include Project Involvements	If checked, then the project involvements w ill be copied.
Include Profile Option Values	If checked, then the profile option values w ill be copied.
Include Project Allocations	If checked, then the project allocations w ill be copied.
include Project Authorizations	If checked, then the project authorizations w ill be copied.

Personal Skills

In this screen you can register and change personal skills.



Skills of Persons

Person
Organization
Skill
Description
First Experience - from
- to
Last Experience - from
- to
10 rows per page

Search results (62)

Page 1 of 7 >> >|

Person	Skill	Organization	Description	Level	First Experience	Last Experience
Aeikema	EDU.HBO	AXA	Hoger Beroepsonderwijs	100		
Aeikema	SW.Microsoft.Office 2010	AXA	Microsoft Office 2010	110		
Aeikema	SW.Exact.Globe	AXA	Exact Globe	100		
Aeikema	OS.Windows	AXA	Microsoft Windows	110		
Aeikema	Lang.en	AXA	Engels	50		
Aeikema	LIC.Car-B	AXA	Rijbewijs B (car)	100		
Aeikema	LIC.Car-A	AXA	Rijbewijs A (motor)	100		
Aeikema	Lang.es	AXA	Spaans	180		
Aeikema	Lang.nl	AXA	Nederlands	200		
Aeikema	OS.OSX	AXA	Apple Mac OSX	120		
Dirkstra	SW.Invantive Vision	Moevenpick	Invantive Vision	150		
Dirkstra	Lang.fr	Moevenpick	Frans	130		
Dirkstra	Lang.en	Moevenpick	Engels	110		

Create or change

Person * Select Value
Organization
Skill * Select Value
Level * 100
First Experience
Last Experience
Explanation

The meaning of the entry fields is:

User	Reference to a person as registered in Persons 97.
Skill	Reference to a skill as registered in Skills 200.
Level	Numeric value that indicates the productivity of that person in comparison w ith other persons w ith the same skill.

1.2.4.3 Documents

Enter text here.

Documents

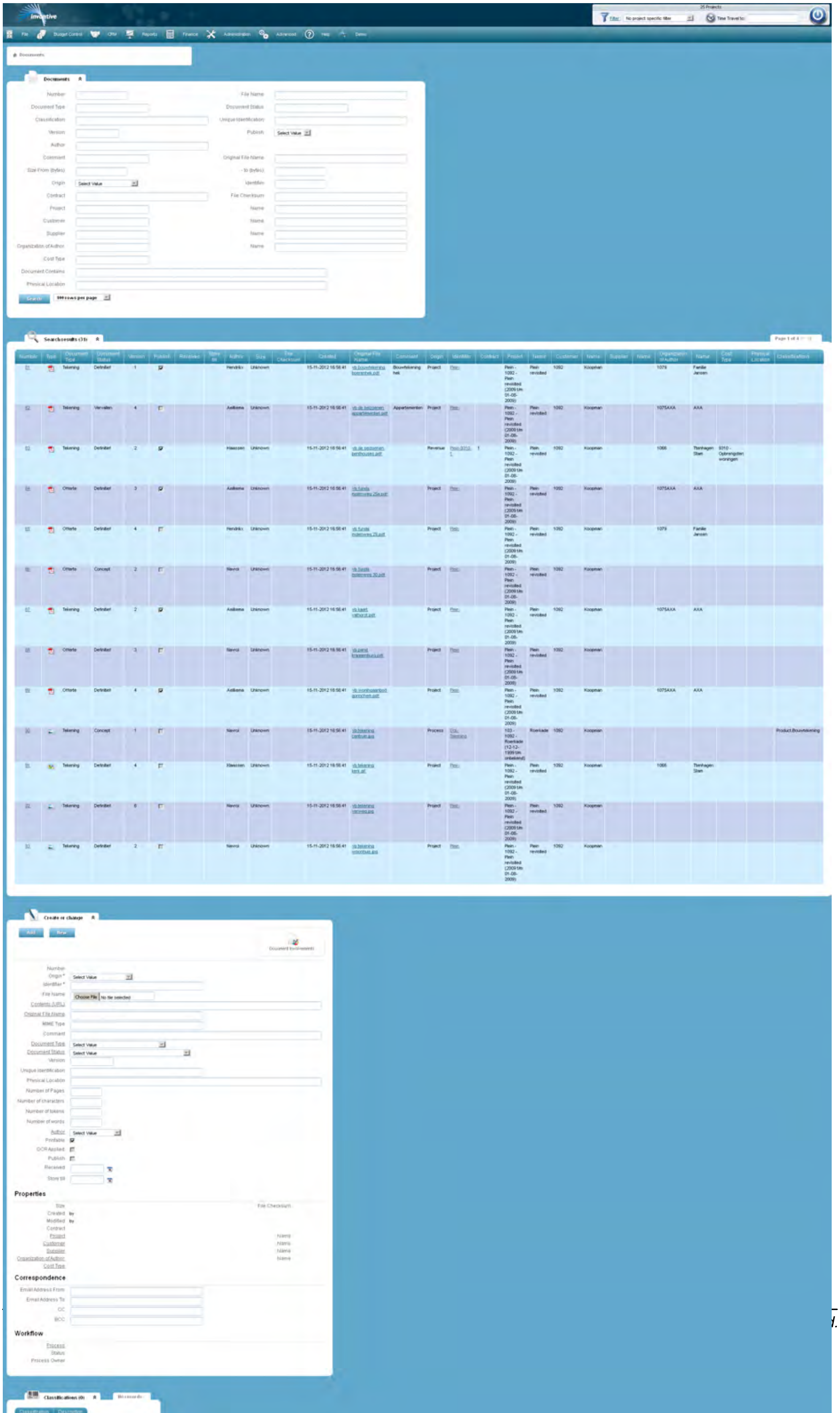
In this form you can register and change documents.

Documents can be physically stored in Invantive Estate or exist of URL's that refer to information that is stored outside Invantive Estate.

There are three links presented in the search results:

- By selecting the unique document number, the selected document will open in the input section.
- By selecting the original file name, the document will be opened.
- By selecting the feature, the corresponding data will be opened, such as a project, an order or a process.

You can only request documents that are linked to information where you have access to and where you also have rights to the source documents (for example; project documents). For example, if you have access to project XYZ, then you can see all documents of this project. However, if you do not have access to project ABC, then you cannot see documents of this project.



Documents

Number		File Name	
Document Type		Document Status	
Classification		Unique Identification	
Version		Publish	Select Value
Author			
Comment		Original File Name	
Size From (bytes)		- to (bytes)	
Origin	Select Value	Identifier	
Contract		File Checksum	
Project		Name	
Customer		Name	
Supplier		Name	
Organization of Author		Name	
Cost Type			
Document Contains			
Physical Location			

Search — 100 rows per page

Search results (31) — Page 1 of 4

Number	Type	Document Type	Document Status	Version	Publish	Received	Store till	Author	Size	File Checksum	Created	Original File Name	Comment	Origin	Identifier	Contract	Project	Name	Customer	Name	Supplier	Name	Organization of Author	Name	Cost Type	Physical Location	Classifications
[illegible]		Tekening	Definitief	1	☑			Hendriks	Unknown		15-11-2012 16:56:41	vb bouwtekening boerenhek.pdf	Bouwtekening hek	Project	Plein-		Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman			1079	Familie Jansen			
[illegible]		Tekening	Vervallen	4	☐			Aalbema	Unknown		15-11-2012 16:56:41	vb de seizoenen appartementen.pdf	Appartementen	Project	Plein-		Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman			1075AXA	AXA			
[illegible]		Tekening	Definitief	2	☑			Klaassen	Unknown		15-11-2012 16:56:41	vb de seizoenen penthouses.pdf		Revenue	Plein-9310-1	1	Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman			1066	Tienhagen Stam	9310 - Opbrengsten woningen		
[illegible]		Offerte	Definitief	3	☑			Aalbema	Unknown		15-11-2012 16:56:41	vb funda molenweg 25a.pdf		Project	Plein-		Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman			1075AXA	AXA			
[illegible]		Offerte	Definitief	4	☐			Hendriks	Unknown		15-11-2012 16:56:41	vb funda molenweg 28.pdf		Project	Plein-		Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman			1079	Familie Jansen			
[illegible]		Offerte	Concept	2	☐			Nevroi	Unknown		15-11-2012 16:56:41	vb funda molenweg 30.pdf		Project	Plein-		Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman							
[illegible]		Tekening	Definitief	2	☑			Aalbema	Unknown		15-11-2012 16:56:41	vb kaart vathorst.pdf		Project	Plein-		Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman			1075AXA	AXA			
[illegible]		Offerte	Definitief	3	☐			Nevroi	Unknown		15-11-2012 16:56:41	vb pand kraaienburg.pdf		Project	Plein-		Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman							
[illegible]		Offerte	Definitief	4	☑			Aalbema	Unknown		15-11-2012 16:56:41	vb woningaanbod gorinchem.pdf		Project	Plein-		Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman			1075AXA	AXA			
[illegible]		Tekening	Concept	1	☐			Nevroi	Unknown		15-11-2012 16:56:41	vb tekening centrum.jpg		Process	[illegible]		103 - 1092 - Roerkade (12-12-1999 t/m onbekend)	Roerkade	1092	Koopman							Product.Bouwtekening
[illegible]		Tekening	Definitief	4	☐			Klaassen	Unknown		15-11-2012 16:56:41	vb tekening kerk.tif		Project	Plein-		Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman			1066	Tienhagen Stam			
[illegible]		Tekening	Definitief	6	☐			Nevroi	Unknown		15-11-2012 16:56:41	vb tekening verweg.jpg		Project	Plein-		Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman							
[illegible]		Tekening	Definitief	2	☐			Nevroi	Unknown		15-11-2012 16:56:41	[illegible]		Project	Plein-		Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Plein revisited	1092	Koopman							

Create or change

Add — New — Document Environment

Number	
Origin *	Select Value
Identifier *	
File Name	Choose File — No file selected
Contents (URL)	
Original File Name	
MIME Type	
Comment	
Document Type	Select Value
Document Status	Select Value
Version	
Unique Identification	
Physical Location	
Number of Pages	
Number of characters	
Number of tokens	
Number of words	
Author	Select Value
Printable	☑
OCR Applied	☐
Publish	☐
Received	
Store till	

Properties

Size		File Checksum	
Created	by		
Modified	by		
Contract			
Project		Name	
Customer		Name	
Supplier		Name	
Organization of Author		Name	
Cost Type			

Correspondence

Email Address From	
Email Address To	
CC	
BCC	

Workflow

Process
Status
Process Owner

Classifications (0) — Bookmarks

Classification — Description

The meaning of the entry fields is:

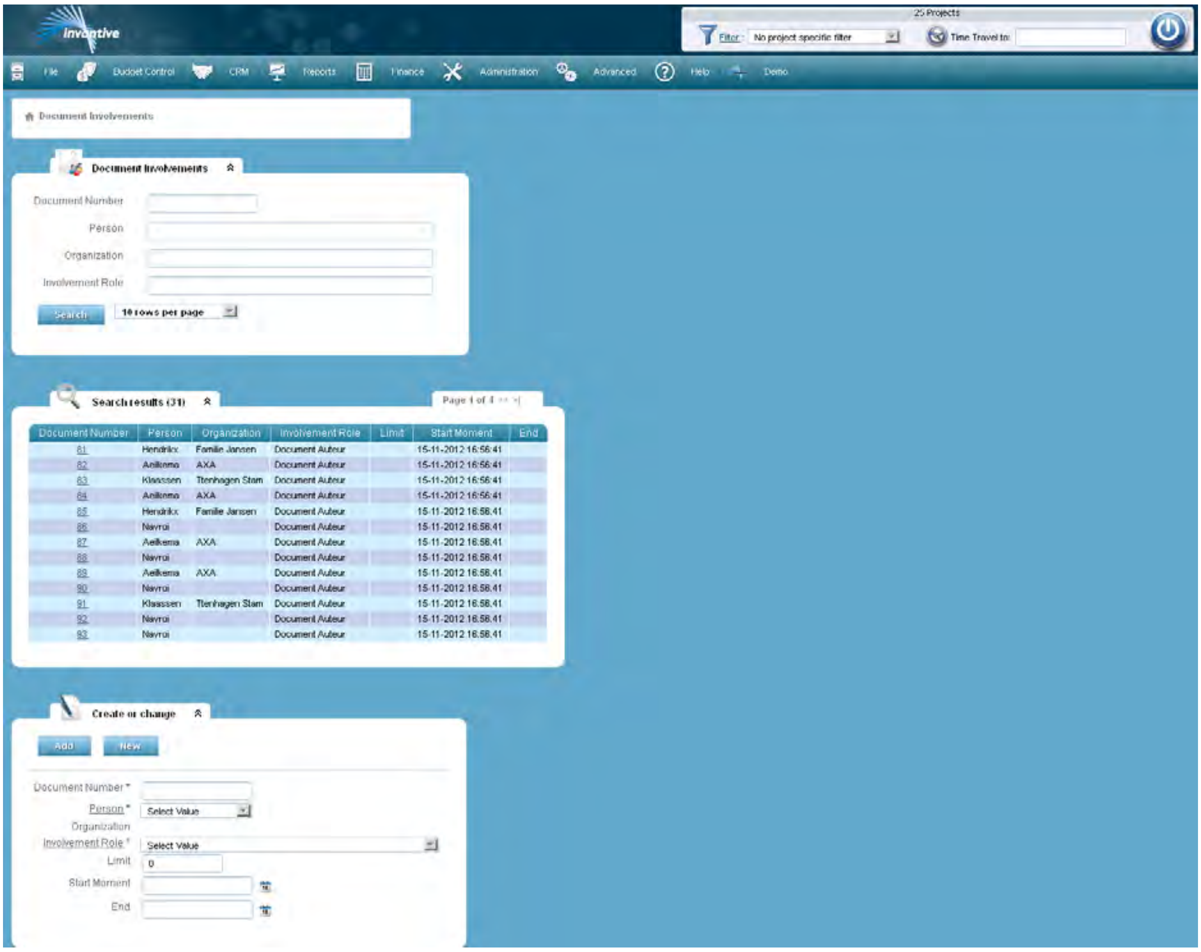
Parent	The source of the document, for example, a project, an assignment, a process, etc.
Identifier	The unique number of the kind of data to which you want to link the document. This could be a project code, for example. This field is automatically filled when you open this screen via a ‘Documents’ link in another screen.
File Name	The file that you want to load or which is already stored.
Content (URL)	The Internet address of the screen where a link to the document is included.
Original File Name	The name of the document in an earlier stage.
MIME Type	The MIME-type of the document as specified by the client where the file will be uploaded. See media types.
Comments	An explanation of the content or meaning of the file.
Document Type	Reference to the document type as registered in the screen Document Types 194.
Document Status	The current status of the document.
Version	Displays the version of the document.
Unique Identification	Unique alphanumeric code, for example, the scan code.
Physical Location	Physical location of the original file.
Number of Pages	The number of pages of the document.
Number of Characters	The number of character in the document.
Number of tokens	The number of keywords in the document.
Number of words	The number of words in the document.
Author	The author of the document.
Printable	Can the document be printed? Some documents are only for user interface purposes.
OCR applied	When checked the document scanning technique ‘Optical Character Recognition’ was applied when the document was stored. OCR is a technique to create digitally text out of images, so that these can be further processed on a computer.
Publish	Indicator whether the document should be displayed to users who have a role that does not allow to see all documents. The administrator can indicate in the screen Roles 158 if the user is allowed to see all documents with the indicator ‘May See All Documents’.
Received	Shows the date the document was physically received, for example, via conventional mail.
Store till	Shows the date on which the document can be destroyed because the administrative or legal retention period has expired.
Classification	Classification of the document. A classification is a label that can be linked to a project, an organization or a document. Using these labels you can find your information more efficient.
Document Contains	A text that you want to use to search the contents of all visible documents. The text may be expressed as an expression in Oracle Text. Often used search queries are: • ‘area’: documents containing the word ‘area’. • ‘area or surface’: documents containing the word ‘area’ or the word ‘surface’. • ‘area or surface * 3’: documents containing the word ‘area’ or the word ‘surface’ where the occurrence of the word ‘surface’ counts three times as heavy as the word ‘area’. • ‘area’ and ‘surface’: documents containing both the word ‘area’ and the word ‘surface’. • ‘?area’: documents with both the word ‘area’ and words that look like ‘area’. • ‘area-surface’: documents containing the word ‘area’ but preferably without the word ‘surface’. • ‘area;surface’: documents containing the word ‘area’ near to the word ‘surface’. • ‘area not surface’: documents containing the word ‘area’ but preferably without the word ‘surface’. • ‘$area’: documents containing the word ‘area’ and inflections from it like for example ‘areas’. • ‘% area’: documents containing all terms that begin with ‘area’. • ‘area or (surface and feet)’: documents containing the word ‘area’ or containing a combination of the words ‘surface’ and ‘feet’.
Size From (bytes)	The lower limit of the size of the document in bytes.
Size - to (bytes)	The upper limit of the size of the document in bytes.

The meaning of the other fields:

Number	The unique number of the document.
Properties	
Size	Size of the document in bytes.
File Checksum	Checksum created by Invantive Estate using the MD5 algorithm. MD5 (Message Digest Algorithm 5) is a widely used cryptographic hash function with a 128-bit hash value. Using the checksums the system can check to see if there are any duplicate files in existence.
Created with	Date the document was created and a reference to the person on the system that saved the file.
Modified with	Date the document was modified and a reference to the person on the system that saved the file.
Contract	The contract to which the document relates to.
Project	The code of the project to which the document relates to.
Name	The name of the project to which the document relates to.
Customer	The code of the customer of the project to which the document relates to.
Name	The name of the customer of the project to which the document relates to.
Supplier	The code of the contractor of the project to which the document relates to.
Name	The name of the contractor of the project to which the document relates to.
Organization or Author	The code of the organization or the author which own the documents copyright.
Name	The name of the organization or the author which own the document copyrights.
Cost Type	The cost category to which the document relates to.
E-mail	
Email Address From	The e-mail address that sent the e-mail. Provided by the Invantive Estate for Outlook.
Email Address To	The e-mail address to which the e-mail was sent. Provided by the Invantive Estate for Outlook.
CC	The e-mail address to which the e-mail was sent as CC. Provided by the Invantive Estate for Outlook.
BCC	The e-mail address to which the e-mail was sent as BCC. Provided by the Invantive Estate for Outlook.
Workflow	
Process	Reference to a process as registered in Processes 53.
Status	Reference to a status of a process as registered in Processes 53.
Process Holder	Reference to a process holder as registered in Processes 53.

Document Involvements

In this screen you can register and change document entries.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Search
10 rows per page
Page 1 of 4
Add
New

Document Involvements

Document Involvements

Document Number

Person

Organization

Involvement Role

Search results (31)

Document Number	Person	Organization	Involvement Role	Limit	Start Moment	End
81	Hendrikx	Familie Jansen	Document Auteur		15-11-2012 16:56:41	
82	Anilkema	AXA	Document Auteur		15-11-2012 16:56:41	
83	Klaassen	Ttenhagen Stam	Document Auteur		15-11-2012 16:56:41	
84	Anilkema	AXA	Document Auteur		15-11-2012 16:56:41	
85	Hendrikx	Familie Jansen	Document Auteur		15-11-2012 16.58.41	
86	Navroi		Document Auteur		15-11-2012 16.58.41	
87	Aeilkema	AXA	Document Auteur		15-11-2012 16.58.41	
88	Navroi		Document Auteur		15-11-2012 16.58.41	
89	Aeilkema	AXA	Document Auteur		15-11-2012 16.58.41	
90	Navroi		Document Auteur		15-11-2012 16.58.41	
91	Klaassen	Ttenhagen Stam	Document Auteur		15-11-2012 16.58.41	
92	Navroi		Document Auteur		15-11-2012 16.58.41	
93	Navroi		Document Auteur		15-11-2012 16.58.41	

Create or change

Document Number *	
Person *	Select Value
Organization	
Involvement Role *	Select Value
Limit	0
Start Moment	
End	

The meaning of the entry fields is:

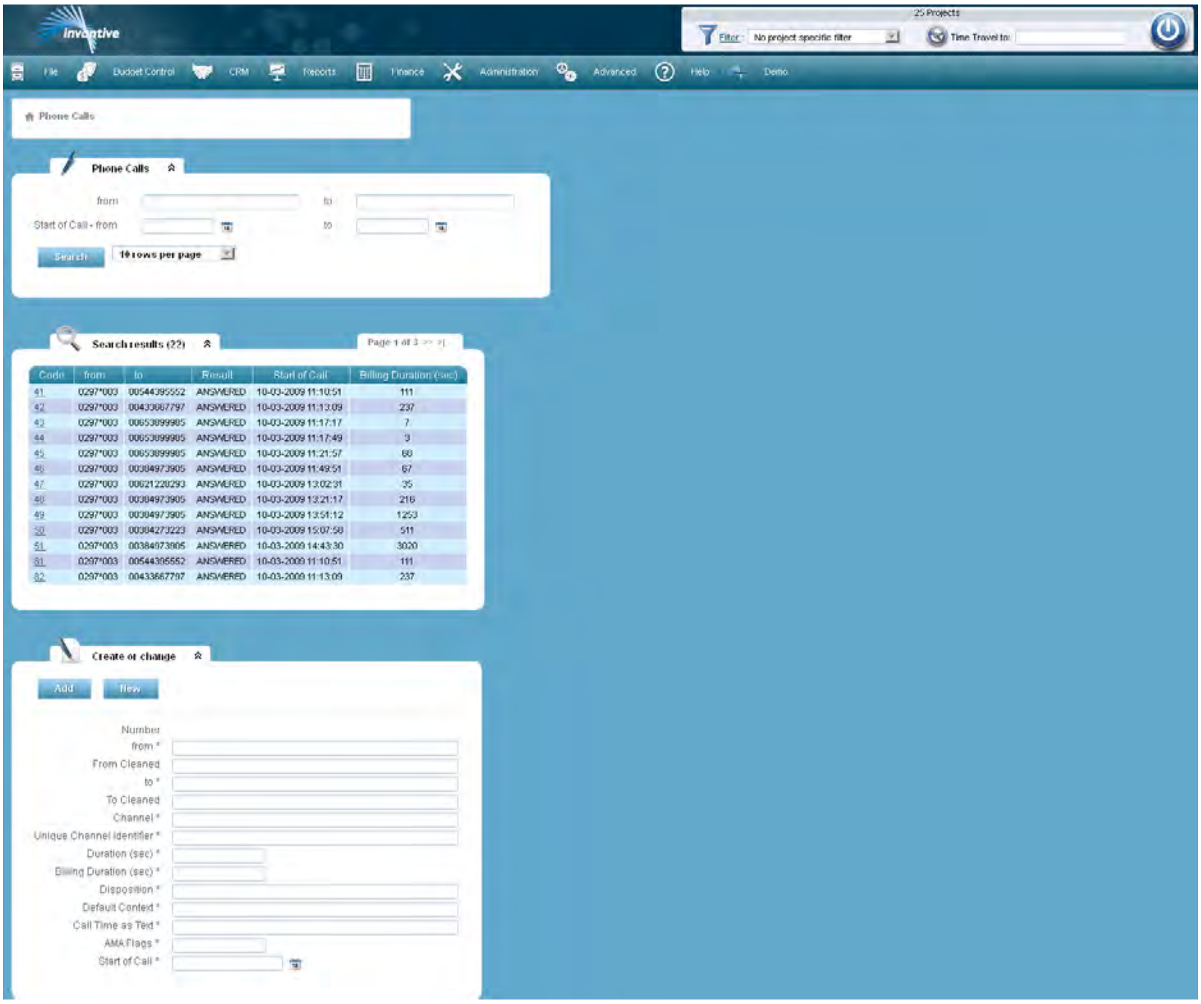
Document Number	Reference to a document as registered in Documents 102.
Person	Reference to a person as registered in Persons 97.
Involvement Role	The role the person performs in relation to the document.
Limit	Deviating limit used for managing w orkflow transitions.

1.2.4.4 Telephone conversations

Enter text here.

Telephone conversations

In this screen,telephone conversations can be registered also those that originate from the telephone exchange.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Phone Calls
Phone Calls
from
to
Start of Call - from
to
Search
10 rows per page
Search results (22)
Page 1 of 3 >> >|
Create or change
Add
New
Number from *
From Cleaned
to *
To Cleaned
Channel *
Unique Channel Identifier *
Duration (sec) *
Billing Duration (sec) *
Disposition *
Default Context *
Call Time as Text *
AMA Flags *
Start of Call *

Code	from	to	Result	Start of Call	Billing Duration (sec)
41	0297*003	00544395552	ANSWERED	10-03-2009 11:10:51	111
42	0297*003	00433667797	ANSWERED	10-03-2009 11:13:09	237
43	0297*003	00653899985	ANSWERED	10-03-2009 11:17:17	7
44	0297*003	00653899985	ANSWERED	10-03-2009 11:17:49	3
45	0297*003	00653899985	ANSWERED	10-03-2009 11:21:57	60
46	0297*003	00384973905	ANSWERED	10-03-2009 11:49:51	67
47	0297*003	00621228293	ANSWERED	10-03-2009 13:02:31	35
48	0297*003	00384973905	ANSWERED	10-03-2009 13:21:17	216
49	0297*003	00384973905	ANSWERED	10-03-2009 13:51:12	1253
50	0297*003	00384273223	ANSWERED	10-03-2009 15:07:58	511
51	0297*003	00384973905	ANSWERED	10-03-2009 14:43:30	3020
81	0297*003	00544395552	ANSWERED	10-03-2009 11:10:51	111
82	0297*003	00433667797	ANSWERED	10-03-2009 11:13:09	237

The meaning of the entry fields is:

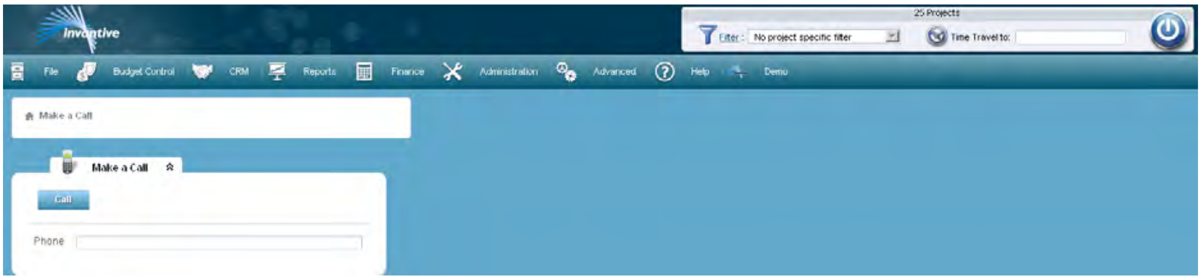
Number from	Source number of the connection.
From Cleaned	Source number of the connection, cleaned by an additional business rule 256.
Number to	Target number of the connection, cleaned by an additional business rule 256.
To Cleaned	Target number of the connection.
Channel	The channel that was used to establish the call.
Unique Channel Identifier	Unique feature of the channel.
Duration (sec)	Duration of the call in seconds.
Billing Duration (sec)	Duration of the call in seconds used to determine the cost.
Disposition	Indicates what happened with the call.
Default Context	Default context of the call.
Call Time as Text	Date and time the call was initiated, delivered in text format by the source system.
AMA Flags	AMA is an abbreviation for: Automated Message Accounting. The next values are available: • 1 = Omit, do not record the conversations. • 2 = Charge, charge the call. • 3 = Archive, this is the default value, indicates that the interview should be archived.
Start Call	Date and time the call was started.

Make a Call

This screen allows you to call if you have the necessary facilities and Invantive Estate is connected to a PBX. The screen uses the technique Computer Telephony Integration (CTI). This technique connects a PBX with a computer. This will allow you to manage telephone calls with the computer.

Using CTI has the following advantages:

- Personal and rapid approach of the customer. The customer is immediately recognized by using his phone number. It is also possible with use of a report of unanswered calls to call back the customers the same day. This service enhances the customer friendly image.
- Efficiency related to time savings. All customer information is instantly available making that the interview time is reduced. The outgoing telephone traffic is achieved by a mouse click from Invantive. This makes entering phone numbers unnecessary.
- Comfort and stress reduction. For incoming calls, a popup appears that shows all relevant information about the relationship. Additional info can be added during the interview. The notes can be stored and consulted at a next contact.
- Cost Savings. The utilization of staff can be adjusted at peak times. The telephone traffic is fully registered. To dial via your PC and using the automatic popups results in a considerable time efficiency and that means cost savings.
- Better accessibility. The accessibility of your company is best when using CTI . No long waiting times thanks to efficient communication.



Filter : No project specific filter

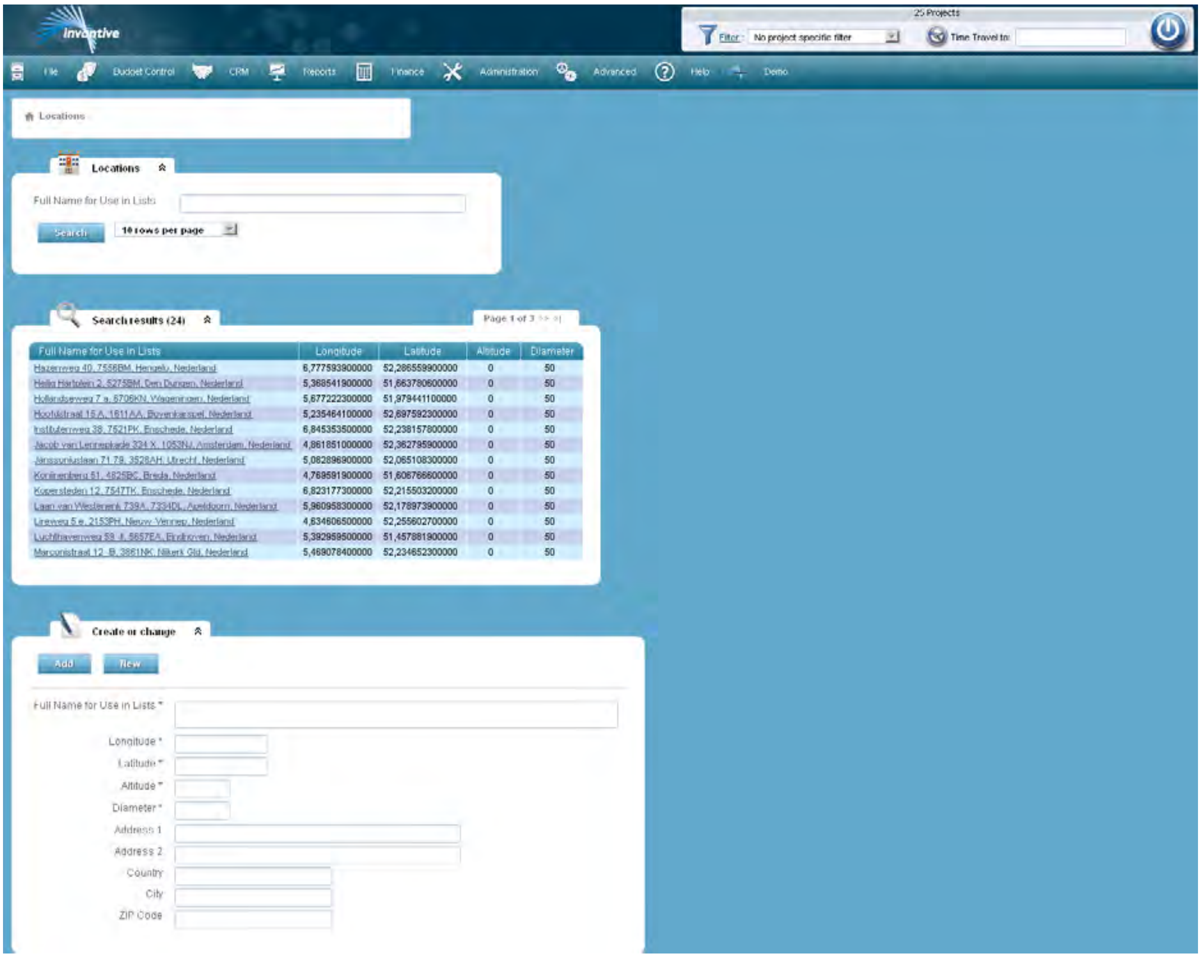
The meaning of the entry fields is:

Telephone	The telephone number

1.2.4.5 Locations

In this screen you can register and change the geocode from locations.

A geocode is a geographical code that identifies a point or area on the earth's surface.



Full Name for Use in Lists

Full Name for Use in Lists	Longitude	Latitude	Altitude	Diameter
Hazenweg 40, 7556BM, Hengelo, Nederland	6,777593900000	52,286559900000	0	50
Heilig Hartplein 2, 5275BM, Den Dungen, Nederland	5,368541900000	51,663780600000	0	50
Hollandseweg 7 a, 6706KN, Wageningen, Nederland	5,677222300000	51,979441100000	0	50
Hoofdstraat 15 A, 1611AA, Bovenkarspel, Nederland	5,235464100000	52,697592300000	0	50
Institutenweg 38, 7521PK, Enschede, Nederland	6,845353500000	52,238157800000	0	50
Jacob van Lennepkade 334 X, 1053NJ, Amsterdam, Nederland	4,861851000000	52,362795900000	0	50
Janssoniuslaan 71 79, 3528AH, Utrecht, Nederland	5,082896900000	52,065108300000	0	50
Konijnenberg 51, 4825BC, Breda, Nederland	4,769591900000	51,606766600000	0	50
Kopersteden 12, 7547TK, Enschede, Nederland	6,823177300000	52,215503200000	0	50
Laan van Westenenk 739A, 7334DL, Apeldoorn, Nederland	5,960958300000	52,178973900000	0	50
Lireweg 5 e, 2153PH, Nieuw-Vennep, Nederland	4,634606500000	52,255602700000	0	50
Luchthavenweg 59 ,8, 5657EA, Eindhoven, Nederland	5,392959500000	51,457881900000	0	50
Marconistraat 12 B, 3861NK, Nijkerk Gld, Nederland	5,469078400000	52,234652300000	0	50

Full Name for Use in Lists *
Longitude *
Latitude *
Altitude *
Diameter *
Address 1
Address 2
Country
City
ZIP Code

The meaning of the entry fields is:

Full Name for Use in Lists	The full name for use in reports and lists.
Longitude	The longtitude. Together w ith the latitude it is a geographical position indication
Latitude	The latitude. Together w ith the longtitude it is a geographical position indication
Altitude	The altitude of the location
Diameter	The diameter of the location in meters.
Address 1	Address of the location.
Address 2	A second address line.
Zip Code	The zip code.
City	The city name of the location.
Country	The country of the location.

1.2.5 Reports

This section contains information about the functions which can normally be found under the menu item ‘Management Information’. This chapter contains information about the reports for financial management and control. These functions are normally used by the project developers and the financial department.

Aggregation levels

Invantive Estate offers you reports on four different levels of aggregation. Level four provides the most detailed information, while level one is the most summarized version.

Calculation Deviation

The main function of Invantive Estate is determining the prognosis of the result of a project. The difference between the prognosis and the budget is called 'deviation'.

A project has several sides when looking from a financial point of view:

- The initial prognosis of the result (the budget).
- The actual outcome of the result (the result).
- The interim estimate of the ultimate outcome (prognosis and its deviation from the budget).

The initial prognosis is usually determined by a project developer as an exposé which becomes a project after being approved. In the end, you can read from your general ledger what the final result has been. However, projects can take years and large fluctuations between the prognosis and the final outcome are not unusual if project results are not placed under tight control. Invantive Estate support you in managing and controlling project results based on the information known at reporting time.

Prognosis End of Work

The financial results (the so called 'Prognosis End of Work') of a project consists of:

The expected revenues

-

The expected costs

For finance, an other financial result is determined, namely taking into account the amount already processed in the results of the organization while the project is still running. This is, for example, important with an administration following the IFRS rules. In that case the result consists of:

The expected revenues

-

The expected costs

-

The already taken result

The expected revenues are the sum of the expected revenues registered on all costs types in the master roll ups of the type 'Revenues'.

The expected costs are the sum of the expected costs registered on all costs types in the master roll ups of the type 'Costs'.

The already taken result consists of the sum of all invoice lines registered on costs types in the master roll ups of the type 'Results'.

Deviation from a Cost Category

The deviation of a cost category is determined by the following calculation rules:

Depending of the project settings for the 'release of deviations' (see Projects 124) only negative or also positive balances are included in the calculation of the deviation of a cost category:

- Displaying is turned on for the entire project: for all cost categories negative and positive remainders are included.
- Display is turned on for ‘Cost Category’ for the entire project. If display for cost category is turned on or revenues are involved, then positive and negative remainders are included. If display for cost category is turned off and no revenues are involved, then positive and negative remainders are replaced by 0.

The remainder before the settings regarding displaying are executed, is calculated as follows:

Cost category budget

-

Approved budgets on specific contracts

-

Spend budget outside the contracts with specific budgets

+

Deviation contract with specific budgets

The deviation for contracts with specific budgets, is calculated as follows:

contract budget

-

Spend budget

The budget spent on contracts are calculated as follows:

The largest of:

- Latest estimate, if present.
- If the absolute amount on invoices with orders is greater than the absolute amount of orders, contracted revenues or budgeted revenues: then take the amount of invoices with order.
- If the revenue is not bound to a contract yet (only budgeted), there are invoices attached and the revenue has the attribute ‘1 period’: take then the amount of invoices with order.
- If not, take the amount for orders, contractual revenues or budgeted revenues. Plus the amount for invoices without order.

Merging Subprojects

Master projects consist of several subprojects, with each subproject having its own financial administration. Within the master project no financial numbers can be registered. Usually subprojects are separately financially reported. However, if in My Preferences 41 the option ‘Merge Subprojects’ is turned on, then only master projects and independent projects are reported. The deviation of a master project is calculated as follows:

- Take a subproject.
- Make the cost category unique by assigning a unique prefix.
- Calculate the deviation like normal.

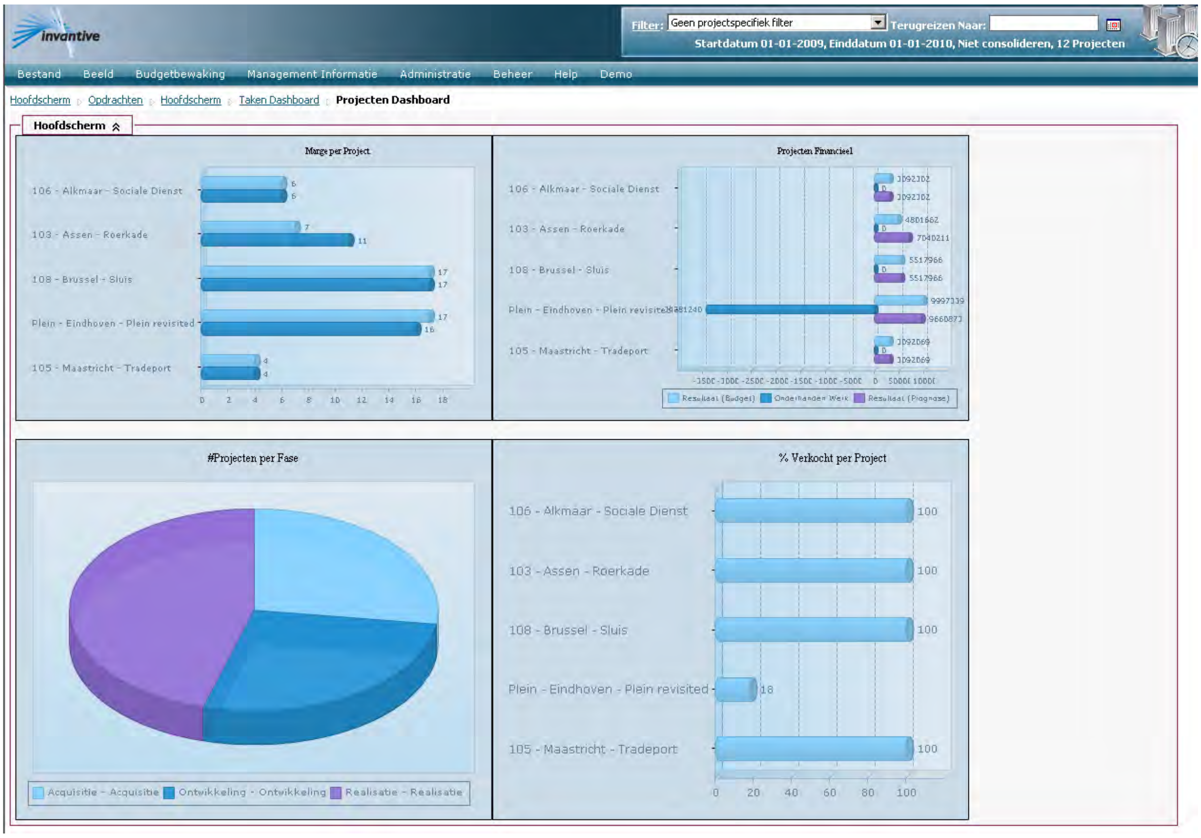
- Do the same for all subprojects.
- Offset all deviations.

1.2.5.1 Dashboard

Enter text here.

Projects Dashboard

In this screen you can quickly get financial insight on the projects. The information is always up to date and will show, depending of your personal settings, one project or all projects.

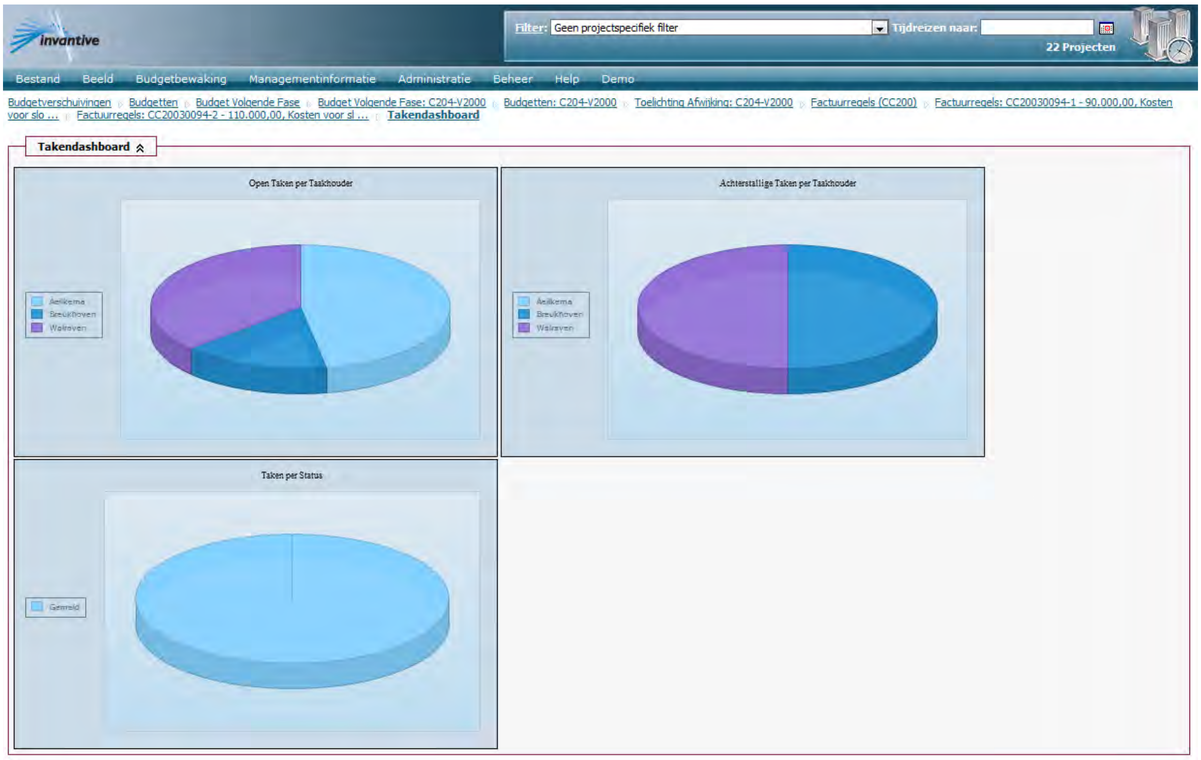


Filter: Geen projectspecifiek filter
Terugreizen Naar:
Startdatum 01-01-2009, Einddatum 01-01-2010, Niet consolideren, 12 Projecten

invantive
Bestand
Beeld
Budgetbewaking
Management Informatie
Administratie
Beheer
Help
Demo
Hoofdscherm
Opdrachten
Hoofdscherm
Taken Dashboard
Projecten Dashboard
Hoofdscherm
Marge per Project
106 - Alkmaar - Sociale Dienst
103 - Assen - Roerkade
108 - Brussel - Sluis
Plein - Eindhoven - Plein revisited
105 - Maastricht - Tradeport
6
6
7
11
17
17
17
16
4
4
0
2
4
6
8
10
12
14
16
18
Projecten Financieel
106 - Alkmaar - Sociale Dienst
103 - Assen - Roerkade
108 - Brussel - Sluis
Plein - Eindhoven - Plein revisited
105 - Maastricht - Tradeport
1092102
0
1092102
4801662
0
7040211
5517966
0
5517966
9997119
381240
9660871
1092069
0
1092069
-150C
-100C
-250C
-200C
-150C
-100C
-500C
0
5000C
1000C
Resultaat (Budget)
Onderhanden Werk
Resultaat (Prognose)
#Projecten per Fase
Acquisitie - Acquisitie
Ontwikkeling - Ontwikkeling
Realisatie - Realisatie
% Verkocht per Project
106 - Alkmaar - Sociale Dienst
103 - Assen - Roerkade
108 - Brussel - Sluis
Plein - Eindhoven - Plein revisited
105 - Maastricht - Tradeport
100
100
100
18
100
0
20
40
60
80
100

Processes dashboard

This screen allows you to quickly get an insight on the processes. The information is always up to date and will show, depending of your personal settings, one project or all projects.


invantive
Filter: Geen projectspecifiek filter
Tijdreizen naar:
22 Projecten
Bestand
Beeld
Budgetbewaking
Managementinformatie
Administratie
Beheer
Help
Demo
Budgetverschuivingen
Budgetten
Budget Volgende Fase
Budget Volgende Fase: C204-V2000
Budgetten: C204-V2000
Toelichting Afwijking: C204-V2000
Factuurregels (CC200)
Factuurregels: CC20030094-1 - 90.000,00, Kosten voor slo ...
Factuurregels: CC20030094-2 - 110.000,00, Kosten voor sl ...
Takendashboard
Takendashboard
Open Taken per Taakhouder
Aeilkema
Breukhoven
Walraven
Achterstallige Taken per Taakhouder
Aeilkema
Breukhoven
Walraven
Taken per Status
Gereed

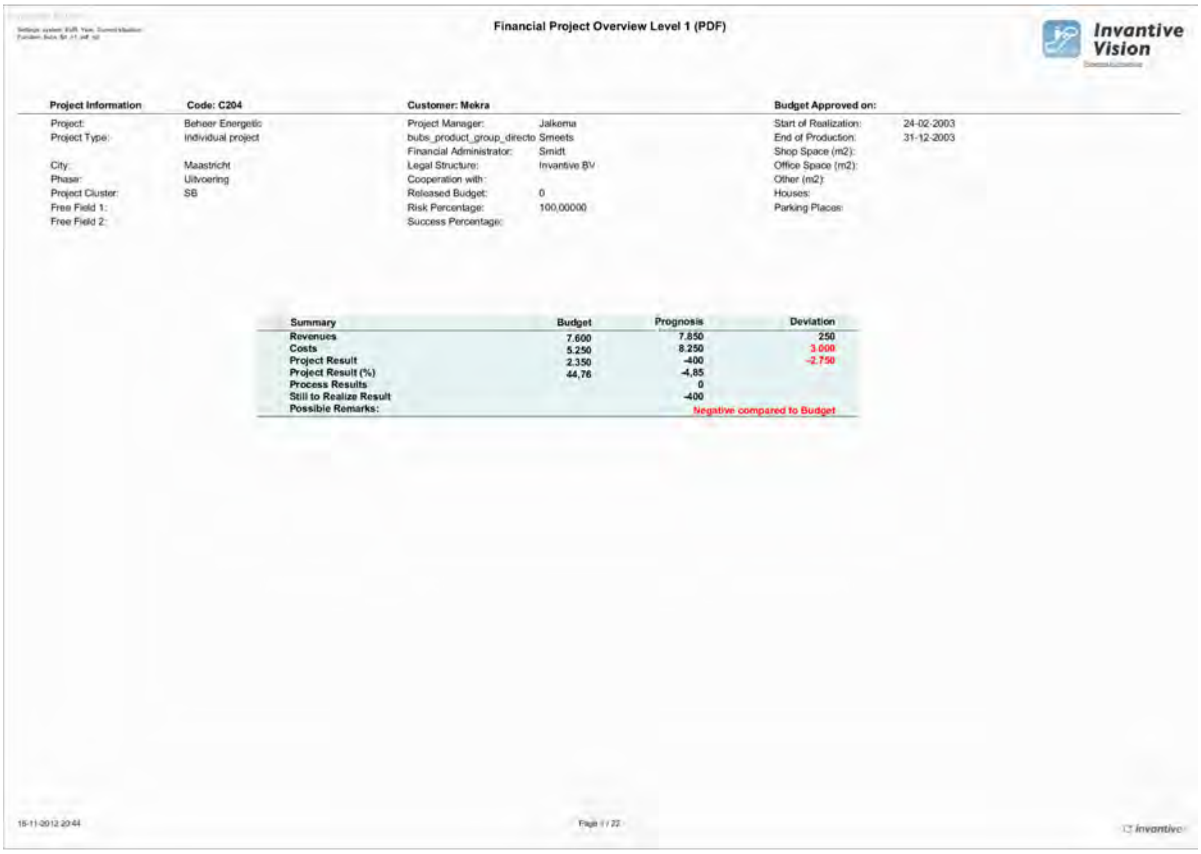
1.2.5.2 Project Overview

Enter text here.

Financial Project Overview Level 1

This report provides the same information as Financial Project Overview Level 2 115, but contains no further detail per master roll up.

See Financial Project Overview Level 2 115 for more information.



Financial Project Overview Level 1 (PDF)

Project Information	Code: C204	Customer: Mekra		Budget Approved on:	
Project:	Beheer Energetic	Project Manager:	Jalkema	Start of Realization:	24-02-2003
Project Type:	Individual project	bubs_product_group_directo	Smeets	End of Production:	31-12-2003
		Financial Administrator:	Smidt	Shop Space (m2):	
City:	Maastricht	Legal Structure:	Invantive BV	Office Space (m2):	
Phase:	Uitvoering	Cooperation with:		Other (m2):	
Project Cluster:	SB	Released Budget:	0	Houses:	
Free Field 1:		Risk Percentage:	100,00000	Parking Places:	
Free Field 2:		Success Percentage:			

Summary	Budget	Prognosis	Deviation
Revenues	7.600	7.850	250
Costs	5.250	8.250	3.000
Project Result	2.350	-400	-2.750
Project Result (%)	44,76	-4,85	
Process Results		0	
Still to Realize Result		-400	
Possible Remarks:		Negative compared to Budget	

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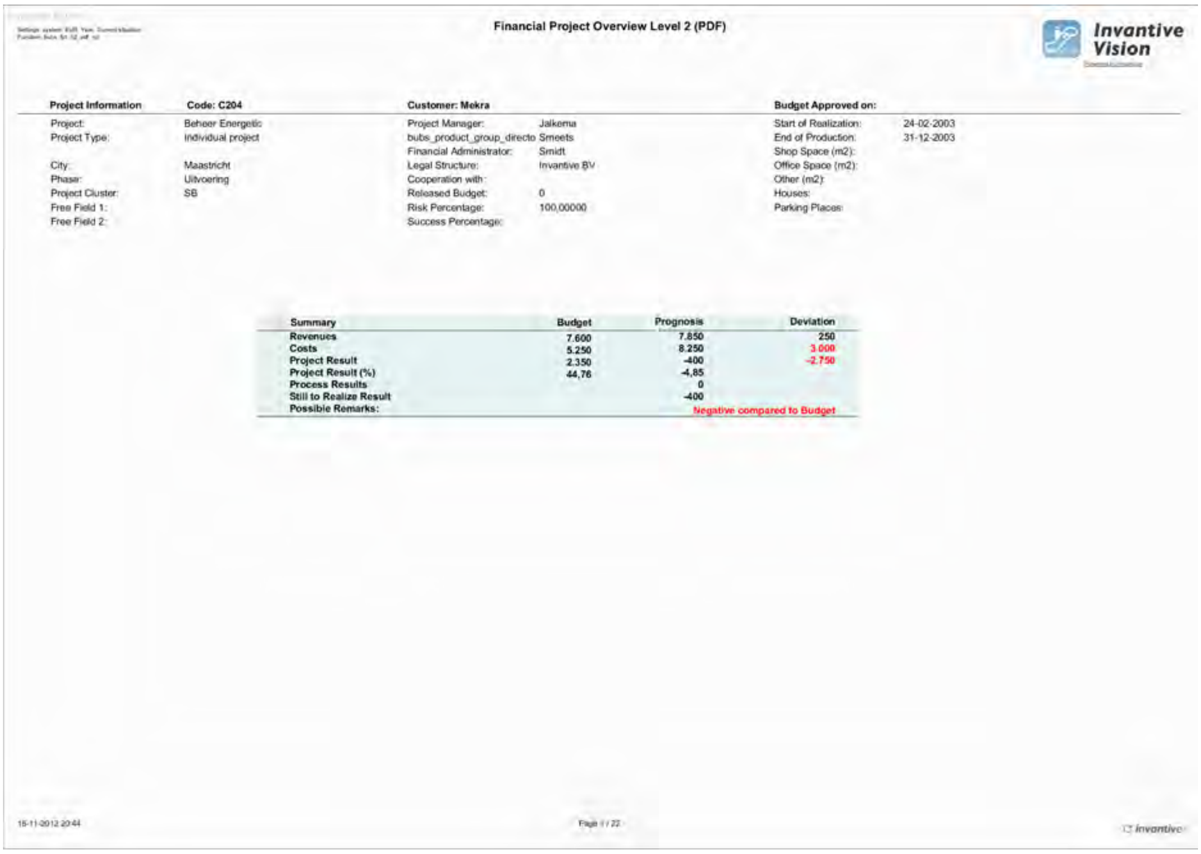
Financial Project Overview Level 2

This report allows you to request the financial status on project level and on master roll up level.



Financial Project Overview Level 2 (PDF)

Project Information	Code: C204	Customer: Mekra		Budget Approved on:	
Project:	Beheer Energetic	Project Manager:	Jalkema	Start of Realization:	24-02-2003
Project Type:	Individual project	bubs_product_group_directo	Smeets	End of Production:	31-12-2003
		Financial Administrator:	Smidt	Shop Space (m2):	
City:	Maastricht	Legal Structure:	Invantive BV	Office Space (m2):	
Phase:	Uitvoering	Cooperation with:		Other (m2):	
Project Cluster:	SB	Released Budget:	0	Houses:	
Free Field 1:		Risk Percentage:	100,00000	Parking Places:	
Free Field 2:		Success Percentage:			

Summary	Budget	Prognosis	Deviation
Revenues	7.600	7.850	250
Costs	5.250	8.250	3.000
Project Result	2.350	-400	-2.750
Project Result (%)	44,76	-4,85	
Process Results		0	
Still to Realize Result		-400	
Possible Remarks:		Negative compared to Budget	

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Every report per level from the financial project overviews is supplied with a standard heading per project. The meaning of the fields in the heading is (see Projects 124 for an elaborate explanation):

Code	The project to which this page refers.
Name	The name of the project.
City	The city in which the project is being realized.
Phase	The current project phase.
Product group	The product group to which the project belongs to.
Free Field 1and Free Field 2	Informative fields for use of your choice.
Project developer	The responsible project developer.
Product Group Director	The responsible product group director.
Financial Administrator	The responsible administrator,
Legal Structure	The legal structure under which the project is realized.
Cooperation with	A possible cooperation agreement.
Released Budget	The released budget.
Risk Percentage	The risk percentage.
Success Percentage	The success percentage.
Exposé Date	The date on which the exposé is approved.
Start of Realization	The date on which the work has started.
End of Production	The date on which the project was delivered.
Shops (m2)	The amount of m2 shops being built.
Offices (m2)	The amount of m2 offices being built.
Other (m2)	The amount of other m2 being built.
Houses	The number of houses being built.
Parking Places	The number of parking places being built.

The meaning of the fields in the top of the page (the so-called ‘level 1 reports’) is:

Revenues	The proceeds of the cost category ‘revenues’, split into budget, prognosis and the deviation from the budget.
Costs	The proceeds of the cost categories ‘costs’, split into budget, prognosis and the deviation from the budget.
Project Result	The project results, split by budget, prognosis and the deviation from the budget.
Project Result (%)	The project result as a percentage of the costs, split into budget, prognosis and deviation from the budget.
Taken result	The financial results already taken, consisting of posting entries on cost categories form the type ‘result’. In accordance with IFRS, results can be taken during the realization of the project.
Possible Remarks	Here the text ‘Negative compared to exposé’ will appear in red, if the expected project results as a percentage is worse than the budgeted results.

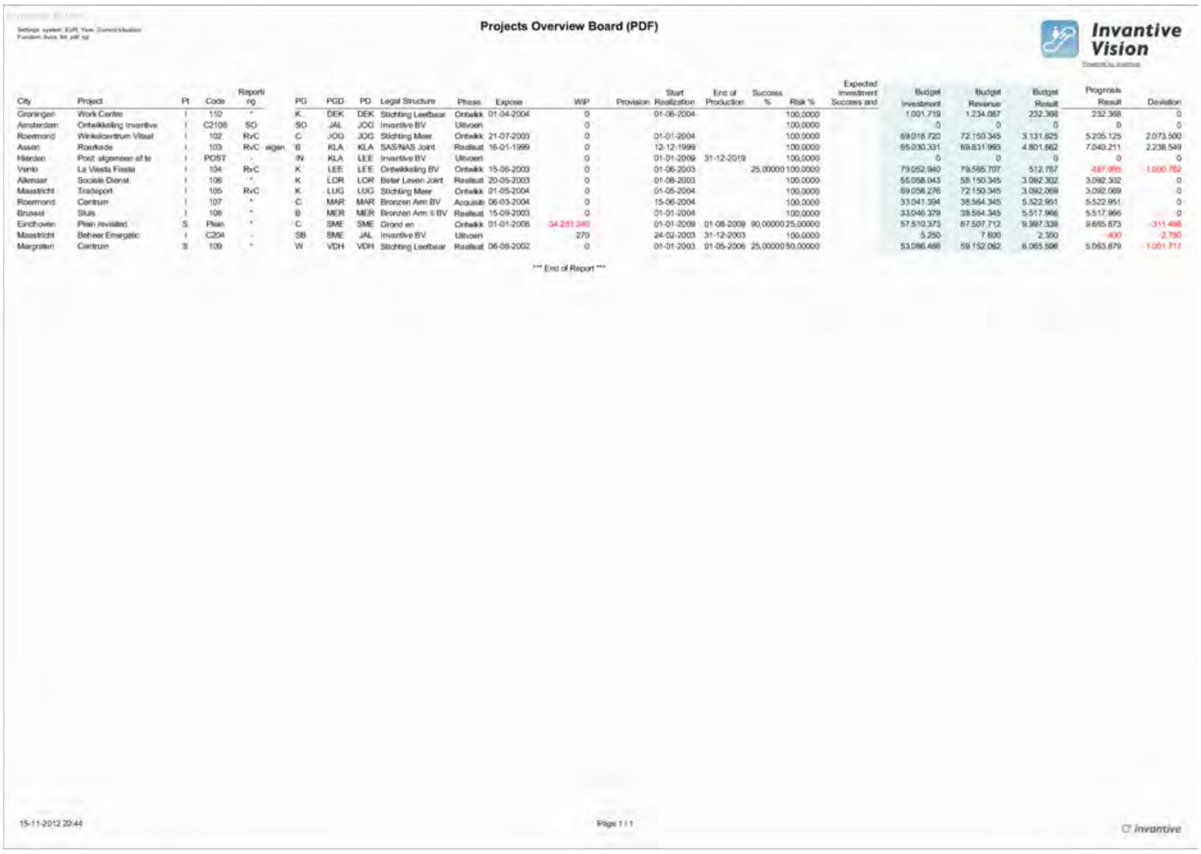
The meaning of the fields in the bottom of the page (so-called ‘level 2 reports’) is:

Budget	The budget.
Orders	This size of the provided orders.
Invoices with order	Invoices which are received/sent based on a provided order or on a contractual revenue.
Invoices without order	Invoices which are sent/received without order or contractual revenue.
Invoices	The total of invoices with order and invoices without order.
Latest estimate.	The total of the latest estimates.
Available compared to prognosis	Budget to be spent.
Open orders	The size of the provided orders of which no invoices with order are received for.
Prognosis	Prognosis of the final result.
Deviation	The difference between the prognosis and budget.
Contr. revenue	The size of the contractual revenues.
Budget to be realized	The size of the to be sold units.
Open contr. revenue	The size of the contractual revenues of which no invoices with order are sent.

General Financial Project Overview

This report provides project growth reports.

The used terms match the definitions of the report Financial Project Overview Level 2 115.



Projects Overview Board (PDF)

City	Project	Pt	Code	Reporting		PG	PGD	PD	Legal Structure	Phase	Expose	WIP	Provision	Start Realization	End of Production	Success %	Risk %	Expected Investment Success and	Budget Investment	Budget Revenue	Budget Result	Prognosis Result	Deviation
Groningen	Work Centre	I	110	*		K	DEK	DEK	Stichting Leefbaar	Ontwikk	01-04-2004	0		01-06-2004			100,0000		1.001.719	1.234.087	232.368	232.368	0
Amsterdam	Ontwikkeling Invantive	I	C2108	SO		SO	JAL	JOG	Invantive BV	Uitvoeri		0					100,0000		0	0	0	0	0
Roermond	Winkelcentrum Vitaal	I	102	RvC		C	JOG	JOG	Stichting Meer	Ontwikk	21-07-2003	0		01-01-2004			100,0000		69.018.720	72.150.345	3.131.625	5.205.125	2.073.500
Assen	Roerkade	I	103	RvC	eigen	B	KLA	KLA	SAS/NAS Joint	Realisat	16-01-1999	0		12-12-1999			100,0000		65.030.331	69.831.993	4.801.662	7.040.211	2.238.549
Hierden	Post: algemeen af te	I	POST	-		IN	KLA	LEE	Invantive BV	Uitvoeri		0		01-01-2009	31-12-2019		100,0000		0	0	0	0	0
Venlo	La Viesta Fiesta	I	104	RvC		K	LEE	LEE	Ontwikkeling BV	Ontwikk	15-06-2003	0		01-06-2003		25,00000	100,0000		79.052.940	79.565.707	512.767	-487.995	-1.000.762
Alkmaar	Sociale Dienst	I	106	*		K	LOR	LOR	Beter Leven Joint	Realisat	20-05-2003	0		01-08-2003			100,0000		55.058.043	58.150.345	3.092.302	3.092.302	0
Maastricht	Tradeport	I	105	RvC		K	LUG	LUG	Stichting Meer	Ontwikk	01-05-2004	0		01-05-2004			100,0000		69.058.276	72.150.345	3.092.069	3.092.069	0
Roermond	Centrum	I	107	*		C	MAR	MAR	Bronzen Arm BV	Acquisiti	06-03-2004	0		15-06-2004			100,0000		33.041.394	38.564.345	5.522.951	5.522.951	0
Brussel	Sluis	I	108	*		B	MER	MER	Bronzen Arm II BV	Realisat	15-09-2003	0		01-01-2004			100,0000		33.046.379	38.564.345	5.517.966	5.517.966	0
Eindhoven	Plein revisited	S	Plein	*		C	SME	SME	Grand en	Ontwikk	01-01-2008	-34.281.240		01-01-2009	01-08-2009	90,00000	25,00000		57.510.373	67.507.712	9.997.339	9.685.873	-311.466
Maastricht	Beheer Energetic	I	C204	-		SB	SME	JAL	Invantive BV	Uitvoeri		270		24-02-2003	31-12-2003		100,0000		5.250	7.600	2.350	-400	-2.750
Margraten	Centrum	S	109	*		W	VDH	VDH	Stichting Leefbaar	Realisat	06-08-2002	0		01-01-2003	01-05-2006	25,00000	50,00000		53.086.488	59.152.062	6.065.596	5.083.879	-1.001.717

*** End of Report ***

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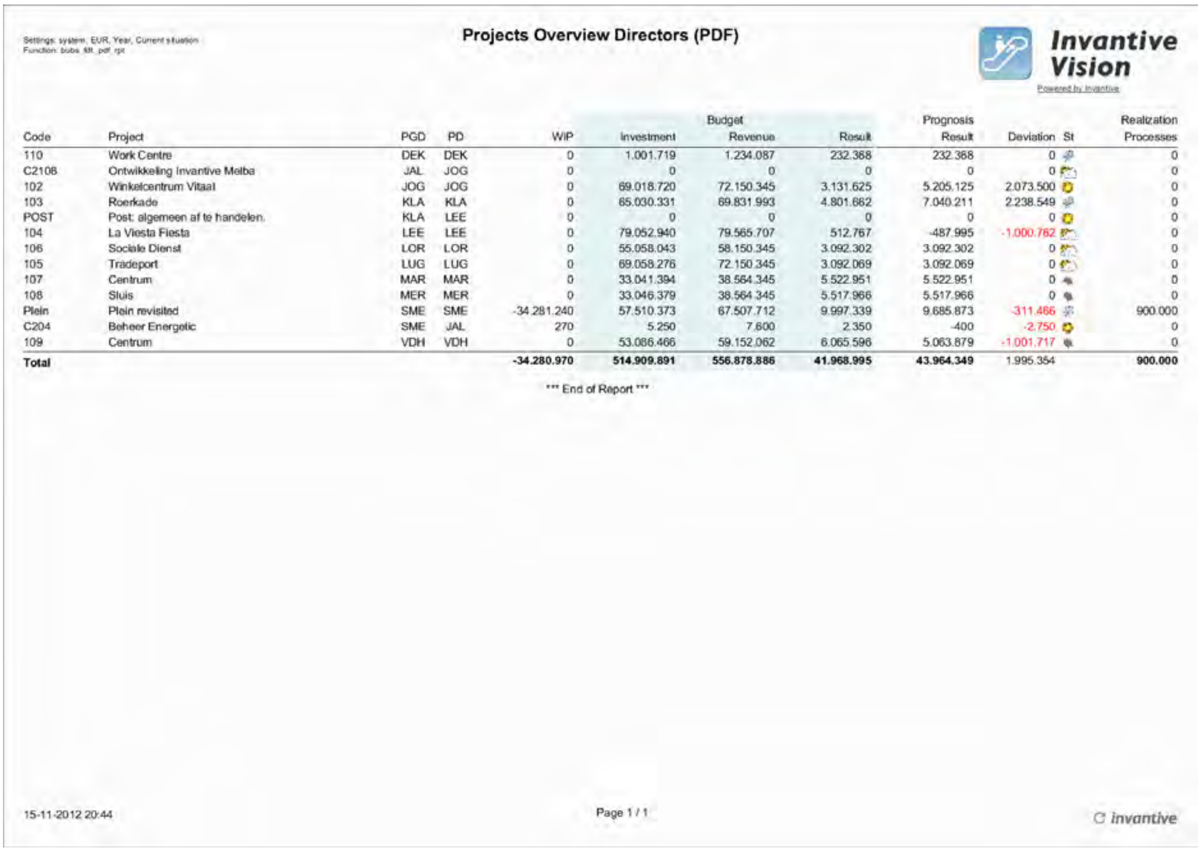
Projects Overview Directors

This report provides the directors with the necessary project transcending information.

The used terms match the definitions of the report Financial Project Overview Level 2 115.



Settings: system, EUR, Year, Current situation
Function: bubs_fdt_pdf_rpt

Projects Overview Directors (PDF)

Invantive Vision
Powered by Invantive

Code	Project	PGD	PD	WIP	Budget Investment	 Revenue	 Result	Prognosis Result	Deviation	St	Realization Processes
110	Work Centre	DEK	DEK	0	1.001.719	1.234.087	232.368	232.368	0	🌧	0
C2108	Ontwikkeling Invantive Melba	JAL	JOG	0	0	0	0	0	0	⛅	0
102	Winkelcentrum Vitaal	JOG	JOG	0	69.018.720	72.150.345	3.131.625	5.205.125	2.073.500	☀	0
103	Roerkade	KLA	KLA	0	65.030.331	69.831.993	4.801.662	7.040.211	2.238.549	🌧	0
POST	Post: algemeen af te handelen.	KLA	LEE	0	0	0	0	0	0	☀	0
104	La Viesta Fiesta	LEE	LEE	0	79.052.940	79.565.707	512.767	-487.995	-1.000.762	⛅	0
106	Sociale Dienst	LOR	LOR	0	55.058.043	58.150.345	3.092.302	3.092.302	0	⛅	0
105	Tradeport	LUG	LUG	0	69.058.276	72.150.345	3.092.069	3.092.069	0	⛅	0
107	Centrum	MAR	MAR	0	33.041.394	38.564.345	5.522.951	5.522.951	0	⛈	0
108	Sluis	MER	MER	0	33.046.379	38.564.345	5.517.966	5.517.966	0	⛈	0
Plein	Plein revisited	SME	SME	-34.281.240	57.510.373	67.507.712	9.997.339	9.685.873	-311.466	❄	900.000
C204	Beheer Energetic	SME	JAL	270	5.250	7.600	2.350	-400	-2.750	☀	0
109	Centrum	VDH	VDH	0	53.086.466	59.152.062	6.065.596	5.063.879	-1.001.717	⛈	0
Total				**-34.280.970**	**514.909.891**	**556.878.886**	**41.968.995**	**43.964.349**	1.995.354		**900.000**

*** End of Report ***

15-11-2012 20:44

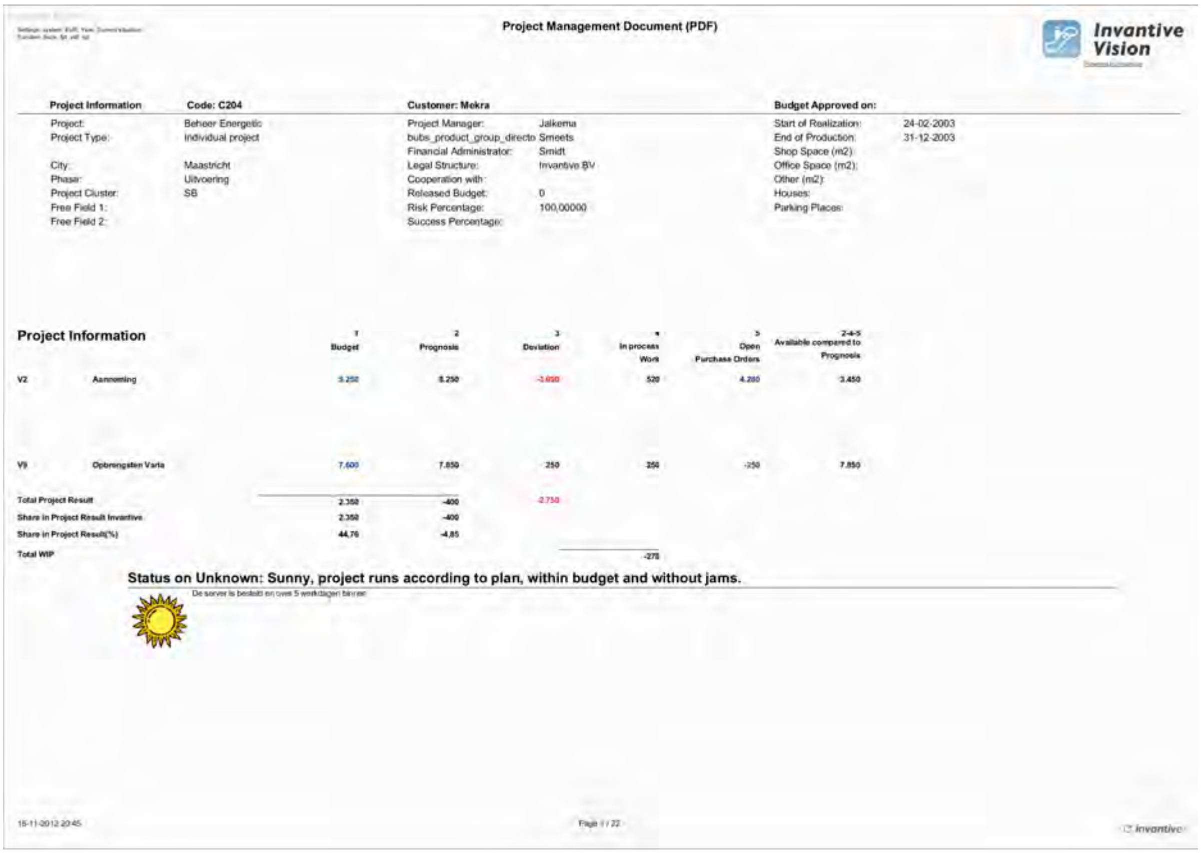
Page 1 / 1

1.2.5.3 Project management

Enter text here.

Project Management Document

This report allows you to request the financial status on project level and on master roll up level.



Project Management Document (PDF)

Project Information	**Code: C204**	**Customer: Mekra**		**Budget Approved on:**	
Project:	Beheer Energetic	Project Manager:	Jalkema	Start of Realization:	24-02-2003
Project Type:	Individual project	bubs_product_group_directo	Smeets	End of Production:	31-12-2003
		Financial Administrator:	Smidt	Shop Space (m2):	
City:	Maastricht	Legal Structure:	Invantive BV	Office Space (m2):	
Phase:	Uitvoering	Cooperation with:		Other (m2):	
Project Cluster:	SB	Released Budget:	0	Houses:	
Free Field 1:		Risk Percentage:	100,00000	Parking Places:	
Free Field 2:		Success Percentage:			

Project Information

		1 Budget	2 Prognosis	3 Deviation	4 In process Work	5 Open Purchase Orders	2-4-5 Available compared to Prognosis
V2	Aanneming	5.250	8.250	-3.000	520	4.280	3.450
V9	Opbrengsten Varia	7.600	7.850	250	250	-250	7.850
Total Project Result		2.350	-400	-2.750			
Share in Project Result Invantive		2.350	-400				
Share in Project Result(%)		44,76	-4,85				
Total WIP					-270		

Status on Unknown: Sunny, project runs according to plan, within budget and without jams.

De server is besteld en over 5 werkdagen binnen

15-11-2012 20:45 Page 1 / 22 © Invantive

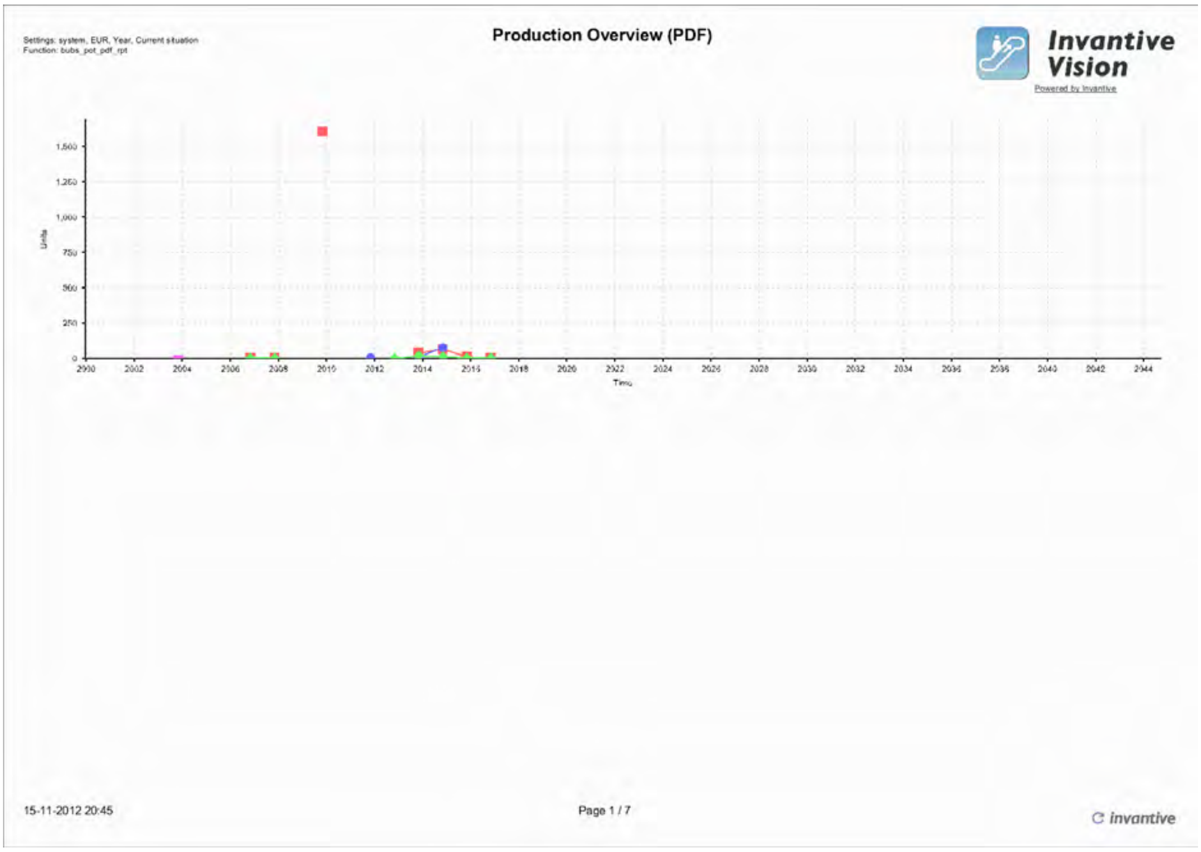
The fields have the same meaning as the fields used for reporting level 2, see Financial Project Overview Level 2 115.

1.2.5.4 Production Overview

Enter text here.

Production Overview

This report gives an overview of the realized and expected production, based on revenues classified as ‘Production’ and on the calculated realization date (see Revenues) 69.



Settings: system, EUR, Year, Current situation
Function: bubs_pot_pdf_rpt

Production Overview (PDF)

15-11-2012 20:45

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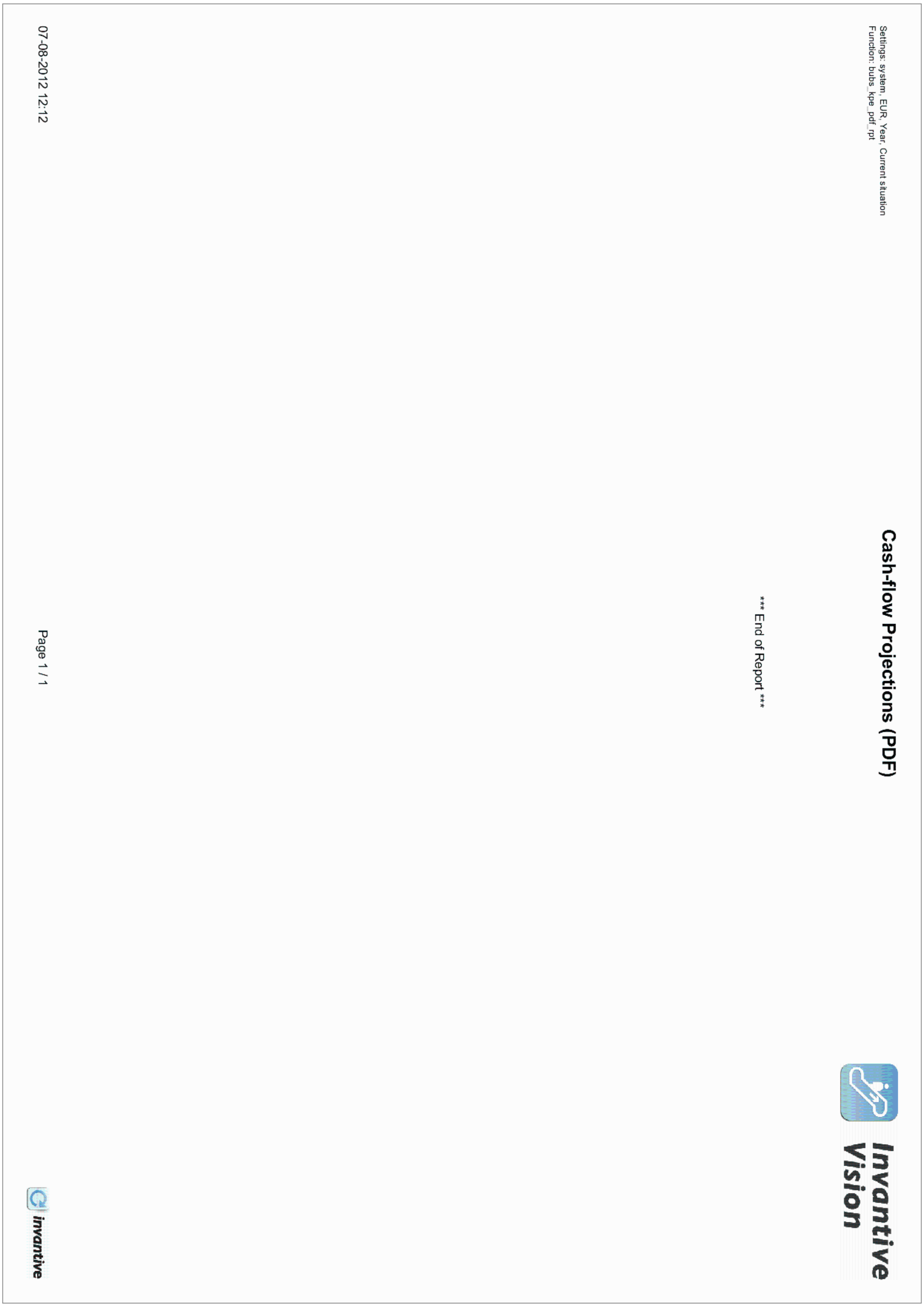
Invantive Vision
Powered by Invantive
Units
1,500
1,250
1,000
750
500
250
0
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
2022
2024
2026
2028
2030
2032
2034
2036
2038
2040
2042
2044
Time
invantive

1.2.5.5 Cash Flow Projections

Enter text here.

Cash Flow Projections

This report shows each project's cash flows for all projects in the filter in the periods again.



Settings: system, EUR, Year, Current situation
Function: bubs_kpe_pdf_rpt

Cash-flow Projections (PDF)

*** End of Report ***

07-08-2012 12:12

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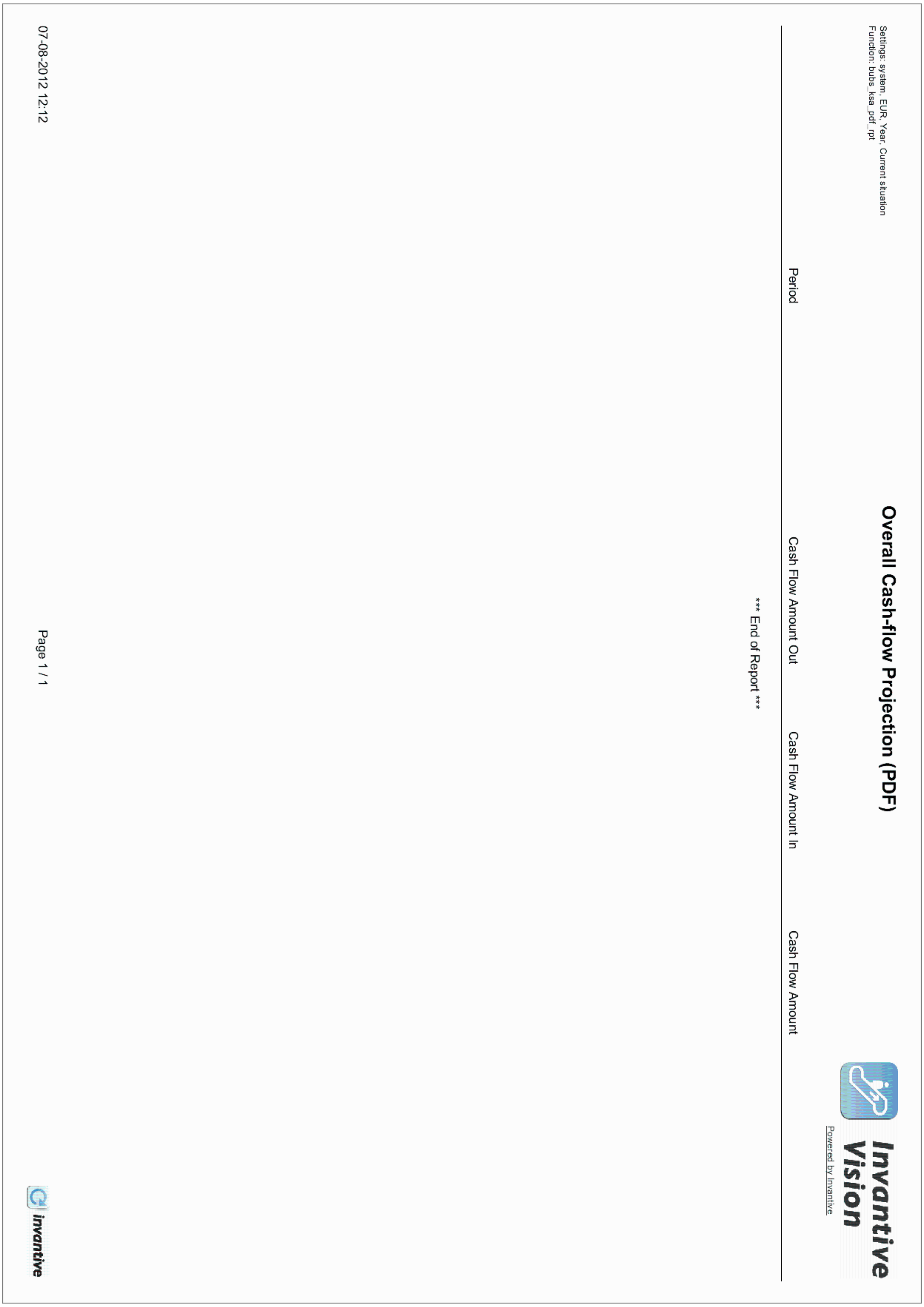
Overall Cash Flow Projections

This report, the consolidated cash flows in periods again.



Overall Cash-flow Projection (PDF)

Settings: system, EUR, Year, Current situation
Function: bubs_ksa_pdf_rpt

Invantive Vision
Powered by Invantive

Period	Cash Flow Amount Out	Cash Flow Amount In	Cash Flow Amount

*** End of Report ***

07-08-2012 12:12

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invantive

1.2.6 Finance

This chapter discusses functions that can be found under ‘Finance’ in a default menu structure. These functions are normally used by the financial administration.

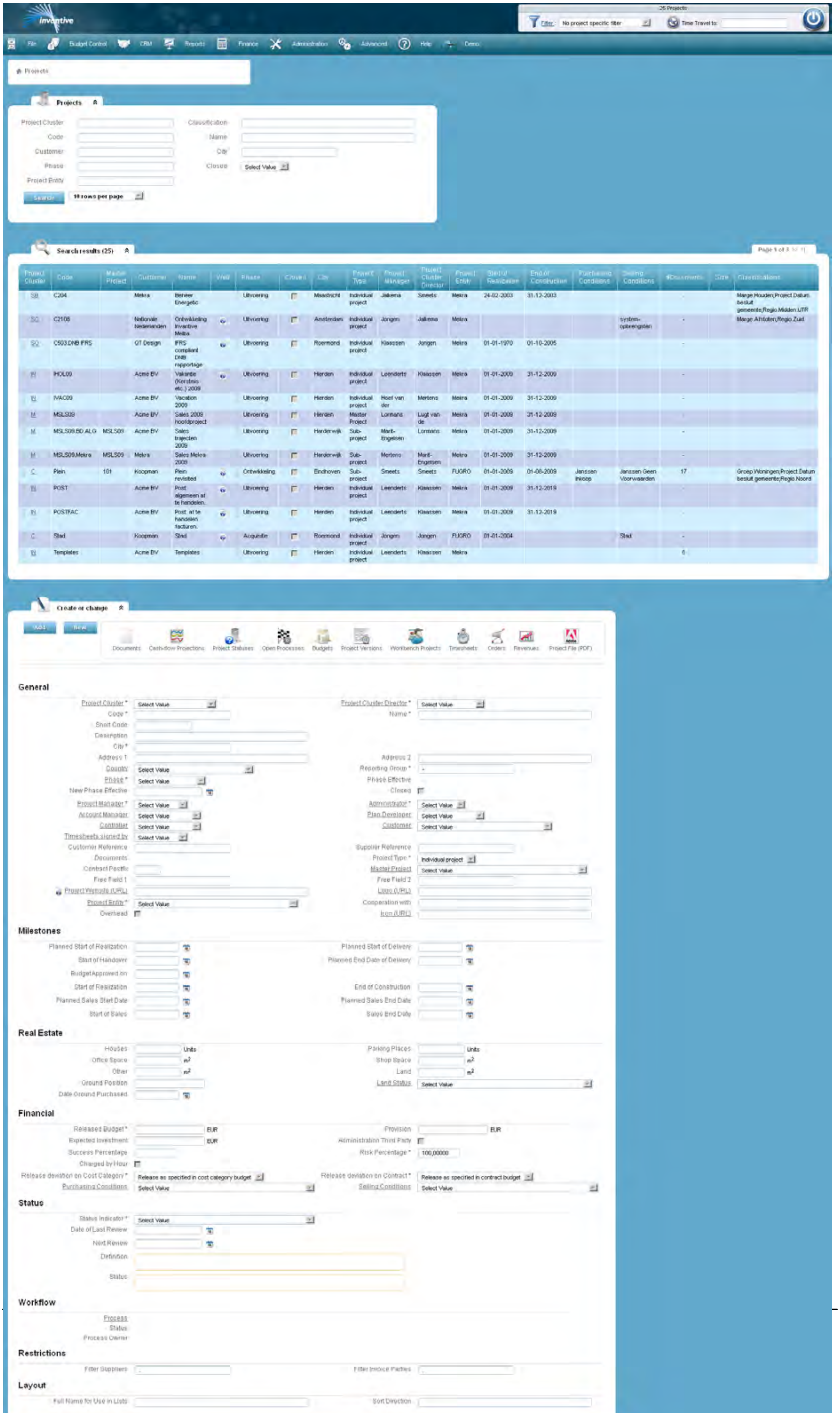
1.2.6.1 Projects

Enter text here.

Projects

In this form you can register and change projects.

A project is a related amount of work, usually consisting of a couple of units of real estate.



Project Cluster
Code
Customer
Phase
Project Entity
Classification
Name
City
Closed: Select Value
10 rows per page

Project Cluster	Code	Master Project	Customer	Name	Web	Phase	Closed	City	Project Type	Project Manager	Project Cluster Director	Project Entity	Start of Realization	End of Construction	Purchasing Conditions	Selling Conditions	#Documents	Size	Classifications
SB	C204		Mekra	Beheer Energetic		Uitvoering	☐	Maastricht	Individual project	Jakema	Smeets	Mekra	24-02-2003	31-12-2003			-		Marge Houden;Project Datum besluit gemeente;Regio Midden UTR
SQ	C2108		Nationale Nederlanden	Ontwikkeling Invantive Melba	●	Uitvoering	☐	Amsterdam	Individual project	Jongen	Jallema	Mekra				systim-opbrengsten	-		Marge Afstoten;Regio Zuid
SQ	C503.DNB IFRS		QT Design	IFRS compliant DNB rapportage	●	Uitvoering	☐	Roermond	Individual project	Klaassen	Jongen	Mekra	01-01-1970	01-10-2005			-		
IN	HOL09		Acme BV	Vakantie (Kerstmis etc.) 2009	●	Uitvoering	☐	Hierden	Individual project	Leenderts	Klaassen	Mekra	01-01-2009	31-12-2009			-		
IN	VAC09		Acme BV	Vacation 2009		Uitvoering	☐	Hierden	Individual project	Hoef van der	Mertens	Mekra	01-01-2009	31-12-2009			-		
M	MSLS09		Acme BV	Sales 2009 hoofdproject		Uitvoering	☐	Hierden	Master Project	Lormans	Lugt van de	Mekra	01-01-2009	31-12-2009			-		
M	MSLS09.BD ALG	MSLS09	Acme BV	Sales trajecten 2009		Uitvoering	☐	Harderwijk	Sub-project	Mark-Engelsen	Lormans	Mekra	01-01-2009	31-12-2009			-		
M	MSLS09.Mekra	MSLS09	Mekra	Sales Mekra 2009		Uitvoering	☐	Harderwijk	Sub-project	Mertens	Mark-Engelsen	Mekra	01-01-2009	31-12-2009			-		
C	Plein	101	Koopman	Plein revisited	●	Ontwikkeling	☐	Eindhoven	Sub-project	Smeets	Smeets	FUGRO	01-01-2009	01-08-2009	Janssen Inkoop	Janssen Geen Voorwaarden	17		Groep Woningen;Project Datum besluit gemeente;Regio Noord
IN	POST		Acme BV	Post algemeen af te handelen.	●	Uitvoering	☐	Hierden	Individual project	Leenderts	Klaassen	Mekra	01-01-2009	31-12-2019			-		
IN	POSTFAC		Acme BV	Post, af te handelen facturen.	●	Uitvoering	☐	Hierden	Individual project	Leenderts	Klaassen	Mekra	01-01-2009	31-12-2019			-		
C	Stad		Koopman	Stad	●	Acquisitie	☐	Roermond	Individual project	Jongen	Jongen	FUGRO	01-01-2004			Stad	-		
IN	Templates		Acme BV	Templates		Uitvoering	☐	Hierden	Individual project	Leenderts	Klaassen	Mekra					6		

General

Project Cluster *: Select Value
Code *
Short Code
Description
City *
Address 1
Country: Select Value
Phase *: Select Value
New Phase Effective
Project Manager *: Select Value
Account Manager: Select Value
Controller: Select Value
Timesheets signed by: Select Value
Customer Reference
Documents
Contract Postfix
Free Field 1
Project Website (URL)
Project Entity *: Select Value
Overhead ☐
Project Cluster Director *: Select Value
Name *
Address 2
Reporting Group *: -
Phase Effective
Closed ☐
Administrator *: Select Value
Plan Developer: Select Value
Customer: Select Value
Supplier Reference
Project Type *: Individual project
Master Project: Select Value
Free Field 2
Logo (URL)
Cooperation with
Icon (URL)

Milestones

Planned Start of Realization
Start of Handover
Budget Approved on
Start of Realization
Planned Sales Start Date
Start of Sales
Planned Start of Delivery
Planned End Date of Delivery
End of Construction
Planned Sales End Date
Sales End Date

Real Estate

Houses: Units
Office Space: m²
Other: m²
Ground Position
Date Ground Purchased
Parking Places: Units
Shop Space: m²
Land: m²
Land Status: Select Value

Financial

Released Budget *: EUR
Expected Investment: EUR
Success Percentage
Charged by Hour ☐
Release deviation on Cost Category *: Release as specified in cost category budget
Purchasing Conditions: Select Value
Provision: EUR
Administration Third Party ☐
Risk Percentage *: 100,00000
Release deviation on Contract *: Release as specified in contract budget
Selling Conditions: Select Value

Status

Status Indicator *: Select Value
Date of Last Review
Next Review
Definition
Status

Workflow

Process
Status
Process Owner

Restrictions

Filter Suppliers: -
Filter Invoice Parties: -

Layout

Full Name for Use in Lists
Sort Direction

The meaning of the entry fields is:

General	
Code	A unique code for the project. The code is generally assigned as soon as the first exposé is approved..
Name	The name of the project.
Short Code	Short project code to support the ERP systems that limit the extent from the project codes to for example 8 characters.
Description	The description of the project.
City	Place w here the project is realized.
Reporting group	Reporting Group w ith w hich the project can be selected in the filter.
Address 1	The address w here the project is realized.
Address 2	Extra address line, in case needed.
Country	Country w here the project is realized.
Reporting group	
Phase	The phase of the project.
Closed	A closed project cannot be changed. The underlying data -remainders, orders, budgets, revenues, etc. are also frozen. The only thing possible after the project is closed, is to reopen the project. Warning! The user 'system' is the only user, that even after completion of a project, has the rights to change the project data.
Product group	The product group of the project.
Product Group Director	The project's responsible product group director.
Project developer	The project's responsible project developer.
Administrator	The responsible admistrator.
Salesman	The real estate agent w ho rents or sells the project
Plan Developer	The developer of the project plans.
Controller	The project controller.
Customer	The buyer of the project.
Timesheet signed by	The person responsible for approving the hours.
Customer Reference	A reference from the customer to this project. This can be for instance a reference to a purchasing order.
Supplier Reference	A reference from a supplier to this project.
Documents	Linked documents, see Linking Documents 29.
Project Type	There are three possible project types: • An individual project: this may include financial data and reporting. • A subproject: this may include financial data and reporting. Moreover, they can be consolidated and reported w ithin a master project. • A master project: it is not possible to include independent financial data and reporting. How ever, the numbers of the underlying subprojects can be consolidated and reported.
Cost Category Postfix	The suffix is used in case of consolidated reporting to make the cost category of each subproject unique. The suffix must be unique for all subprojects w ithin the main project.
Master project	Here, only for subprojects you can and have to select a 'Master Project'. All financial figures are merged w ithin the master project w hen consolidated reporting is selected. The choice w hether to merge is made via My Preferences 41.
Free field 1	Free field for possible further information.
Free Field 2	Free field for possible further information.
Website Project (URL)	The Internet address in case project has its ow n w ebsite.
Logo (URL)	The Internet address of the project logo.
Project entity	The legal structure under w hich the project is realized.
Cooperation w ith	Name of partner in case a cooperation agreement is made for the project.
Overhead	Project is overhead w hen checked.
Icon (URL)	The relative URL from the icon belonging to the project. The icon must be 16 pixels high and 16 pixels w ide.
Milestones	
Planned Start of Realization	The planned start date of the construction activities for the project.
Planned Start of Handover	The planned start date of the delivery of the first units.
Start of Handover	The start date of the delivery of the first units.

Planned End Date of Delivery	The planned end date from the delivery of all units.
Budget Approved on	The date of the last approved exposé.
Start of Realization	De startdatum van de bouw.
End of Construction	The date on which all the building activities are completed and all units are delivered.
Planned Sales Start Date	The planned start date of the sale of the first units.
Planned Sales End Date	The planned end date of the sale of the last units.
Start of Sales	The start date of the sale.
Sales End Date	The end date of the sale
Real Estate	The block real estate with the following fields are only displayed if the license name is Invantive Estate is. When using a license for Invantive Vision the block real estate with belonging fields is not shown.
Houses	The number of houses being built.
Parking Places	The number of parking spaces being built.
Office Space	The number of m2 office space being realized.
Shop Space	The number of m2 shops being realized.
Other	The number of other units being realized.
Ground	Number of m2 land being realized.
Ground Position	The project's ground position.
Land Status	Status of the land that is required for the realization of the project.
Date Ground Purchased	The date the land was purchased for the project.
Financial	
Released Budget	The budget released for the project.
Provision	The provision for the project.
Expected Investment	The project's expected investment.
Administration Third Party	Checked if the administration is done by a third party.
Success Percentage	The expected rate of success.
Risk Percentage	The share that is carried in the project, both in terms of revenue as in risk for a possible negative outcome.
Charged by Hour	Indicates whether the hours within this project are to be charged or not to be charged to the customer.
Release deviation on Cost Category	Here you can choose as a default setting for all budgets to release or not to release the deviations on cost category or to use the setting as specified at budget level. At the end of the realization, the administration will at any time make use of this setting to release all free budget space on cost category to offset all deficits elsewhere. However, you can quickly default on the budgets again by using this setting back to put on the setting budget levels.
Release deviation on Contract	Her you can choose as a default setting for all budgets to release or not to release the deviations on contract budgets or to use the setting as specified at budget level. At the end of the realization, the administration will at any moment make use of this setting to release all free budget space on cost category to offset all deficits elsewhere. However, you can quickly default on the budgets again by using this setting back to put on the setting budget levels.
Purchasing Conditions	Here you can choose which purchasing conditions are applicable.
Selling Conditions	Here you can choose which selling conditions are applicable.
Status	
Status Indicator	A list that classifies a project in terms of progress and budget control into one of the six possible classes. See also Project Statuses 51.
Date of Last Review	The date the last review of the project took place.
Next Review	The date the next review of the project is planned.
Definition	The definition of the status.
Status	A textual explanation of the project's status.
Restrictions	
Filter Suppliers	This filter is used to control at project level which orders can be linked to the project. An example: If you select only the project you are working on in the Filter 12 and for example your filter for order takers is '^025', then you will see only the orders from order takers whose code starts with '025'. If you select all projects in the filter and for example your 'Filter Order Takers' is '^ 025', then you will see all orders of order takers. If now you choose

	an order taker, then it's code has to start with '025 '. If the code of the order taker doesn't begin with '025', you will get an error when saving the project data. The filter is specified as a regular expression (see the 'Oracle SQL Reference') and has a maximal length of 512 characters. With more than 512 characters you get an error message.
Filter Invoice Parties	This filter is used to control at project level which invoices can be linked to the project. An example: If you select only the project you are working on in the Filter 12 and for example your filter for invoice organizations is '^025', then you will see only the orders from invoice organizations whose code starts with '025'. If you select all projects in the filter and for example your 'Filter Invoice Organizations' is '^ 025', then you will see all orders of invoice organizations. If now you choose an invoice, then it's code has to start with '025'. If the code of the invoice doesn't start with '025', you will get an error when saving the project data. The filter is specified as a regular expression (see the 'Oracle SQL Reference') and has a maximal length of 512 characters. With more than 512 characters you get an error message.
<layout> tag	
Full Name for Use in Lists	The name being used to show the project in lists and on reports. Default construction: city-name-code. In case you want to use another name to show the project, you can use an Additional Business Rule 256.
Sort Order	The name used in the drop down boxes to sort the projects. Default construction: code-city-name. In case you want to use another sorting direction, you can use an Additional Business Rule 256.
Classifications	
Classification	The classification of the project. A classification is a label that can be attached to a project, an organization, a process or a document. Using these labels you can find your information more efficient.

The meaning of the other fields:

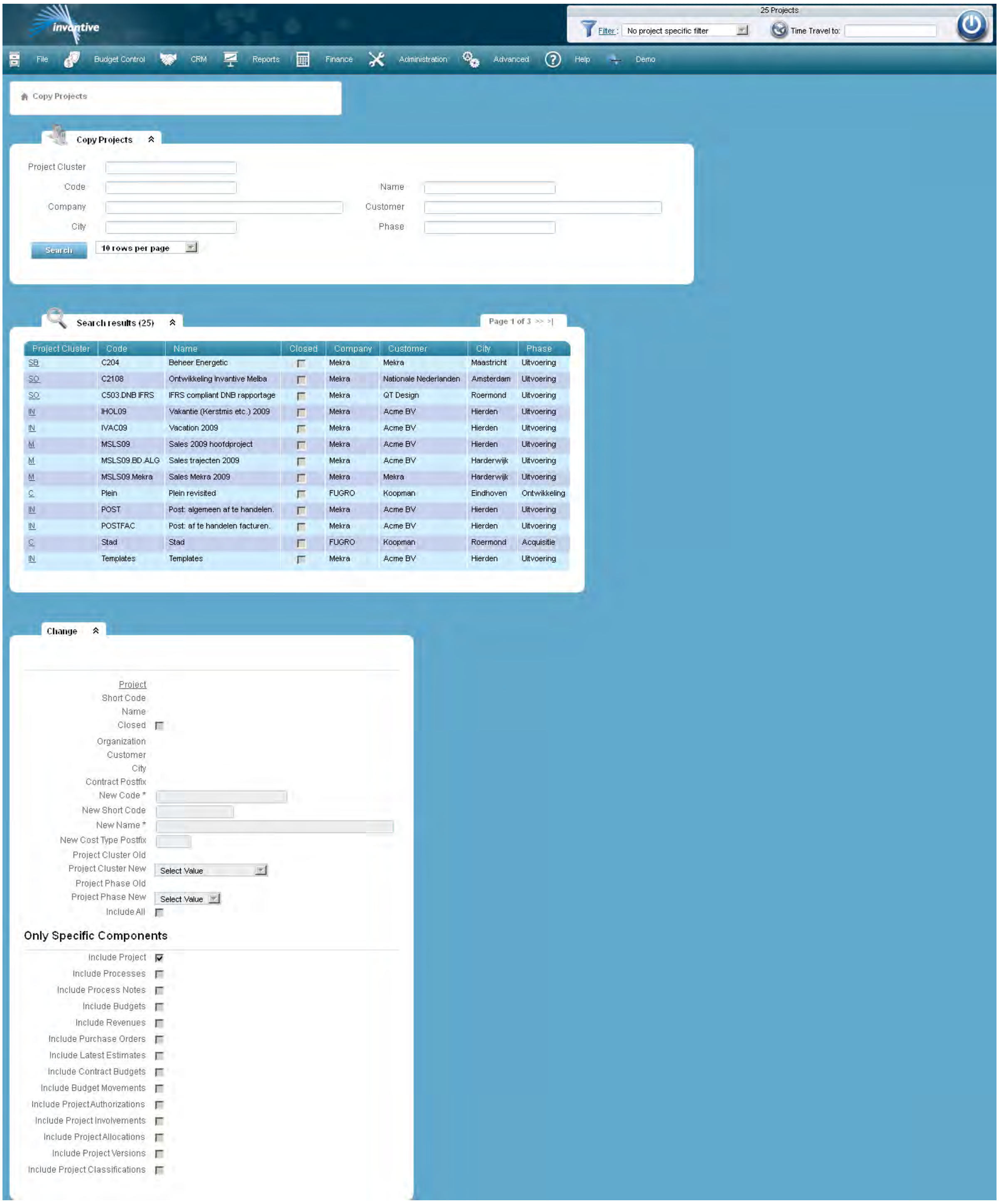
Workflow	
Process	Reference to a process as registered inProcesses 53.
Status	Referentie naar een processtatus zoals geregistreerd in Processtatussen 167.
Process Holder	Reference to a process holder as registered in Processes 53.

The meaning of the action buttons:

Documents	Opens the screen containing the documents of the project.
Cash Flow Projections	Opens the screen containing all the cash flow projections of the project.
Project Statuses	Opens the screen containing the project statuses of the project.
Open Processes	Opens the screen containing the open processes of the project.
Budgets	Opens the screen containing the budgets of the project.
Project Versions	Opens the screen containing the project versions of the project.
Projects Workbank	Opens the screen containing the project workbank of the project.
Hours	Opens the screen containing the hours of the project.
Orders	Opens the screen containing the assignments of the project.
Revenues	Opens the screen containing the revenues of the project.
Project File (PDF)	Opens the screen where you can request the task of the report parameters from the report project dossier.

Copy Projects

In this screen you can completely or partially copy all existing projects.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Copy Projects
Copy Projects
Project Cluster
Code
Name
Company
Customer
City
Phase
Search
Search results (25)
Page 1 of 3 >> >|
Change

10 rows per page

Project Cluster	Code	Name	Closed	Company	Customer	City	Phase
SB	C204	Beheer Energetic	☐	Mekra	Mekra	Maastricht	Uitvoering
SO	C2108	Ontwikkeling Invantive Melba	☐	Mekra	Nationale Nederlanden	Amsterdam	Uitvoering
SO	C503.DNB IFRS	IFRS compliant DNB rapportage	☐	Mekra	QT Design	Roermond	Uitvoering
IN	IHOL09	Vakantie (Kerstmis etc.) 2009	☐	Mekra	Acme BV	Hierden	Uitvoering
IN	IVAC09	Vacation 2009	☐	Mekra	Acme BV	Hierden	Uitvoering
M	MSLS09	Sales 2009 hoofdproject	☐	Mekra	Acme BV	Hierden	Uitvoering
M	MSLS09.BD.ALG	Sales trajecten 2009	☐	Mekra	Acme BV	Harderwijk	Uitvoering
M	MSLS09.Mekra	Sales Mekra 2009	☐	Mekra	Mekra	Harderwijk	Uitvoering
C	Plein	Plein revisited	☐	FUGRO	Koopman	Eindhoven	Ontwikkeling
IN	POST	Post: algemeen af te handelen.	☐	Mekra	Acme BV	Hierden	Uitvoering
IN	POSTFAC	Post: af te handelen facturen.	☐	Mekra	Acme BV	Hierden	Uitvoering
C	Stad	Stad	☐	FUGRO	Koopman	Roermond	Acquisitie
IN	Templates	Templates	☐	Mekra	Acme BV	Hierden	Uitvoering

Project
Short Code
Name
Closed ☐
Organization
Customer
City
Contract Postfix
New Code *
New Short Code
New Name *
New Cost Type Postfix
Project Cluster Old
Project Cluster New: Select Value
Project Phase Old
Project Phase New: Select Value
Include All ☐

Only Specific Components

Include Project ☑
Include Processes ☐
Include Process Notes ☐
Include Budgets ☐
Include Revenues ☐
Include Purchase Orders ☐
Include Latest Estimates ☐
Include Contract Budgets ☐
Include Budget Movements ☐
Include Project Authorizations ☐
Include Project Involvements ☐
Include Project Allocations ☐
Include Project Versions ☐
Include Project Classifications ☐

The meaning of the entry fields is:

New Code	The code for the new project.
New Short Code	Short project code for the new project.
New Name	New Name
New Cost Type Suffix	The cost type suffix for the new project.
Include All	If checked, all items listed below will be copied.
Include Project	If checked, then the to be copied project will be included to the new project. This should be on if you want to copy the project to a new project.
Take Processes	If checked, the related processes will be copied.
Include Process Notes	If checked, the Process Notes will be copied.
Include budgets	If checked, then the budgets will be copied.

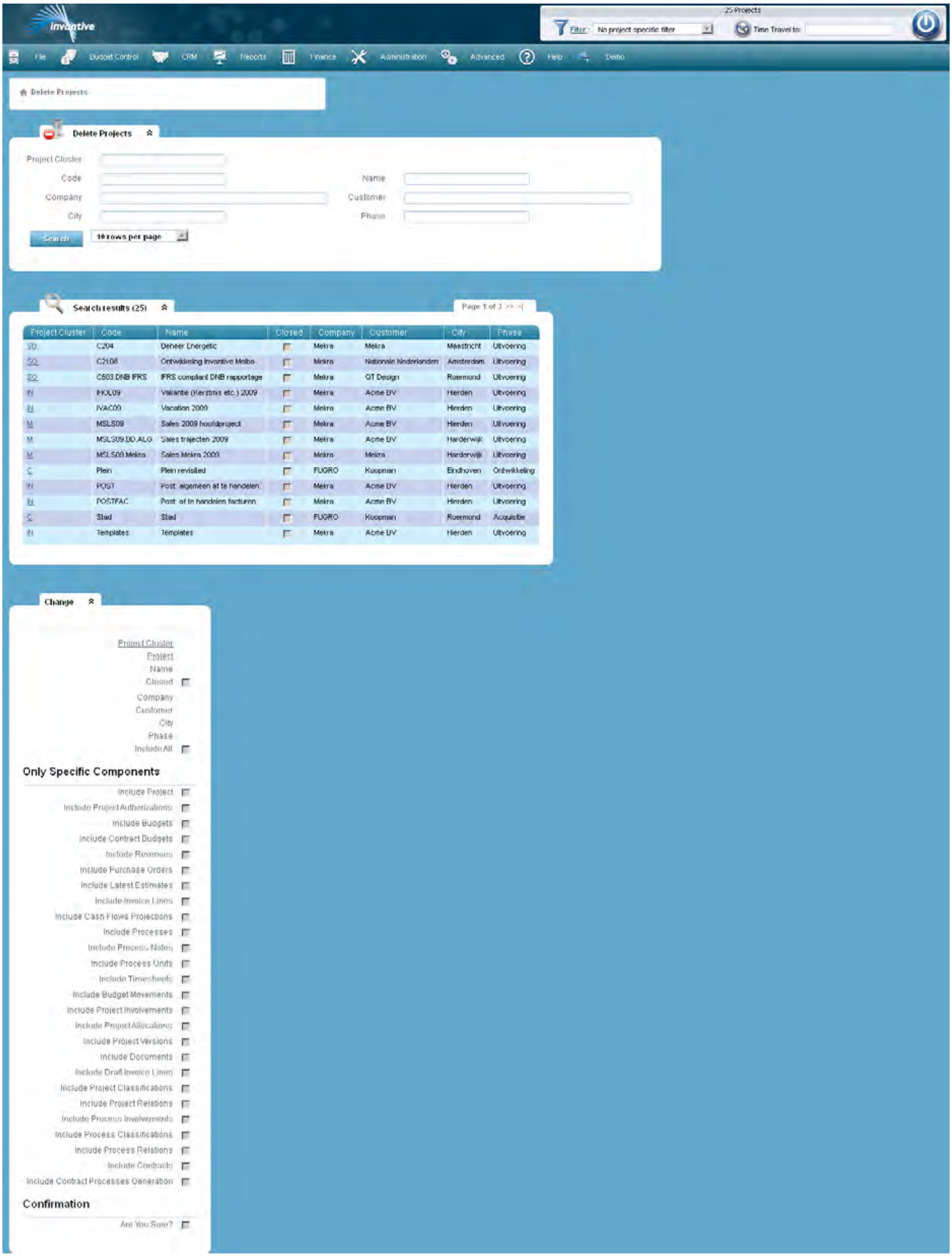
Include Revenues	If checked, then the revenues will be copied.
Include Purchase Orders	If checked, the purchase orders will be copied.
Include Latest Estimates	If checked, the latest estimates will be copied. From these the adjustment will be deducted.
Include Contract Budgets	If checked, the contract budgets will be copied.
Include Budget Movements	If checked, the budget movements will be copied.
Include Project Authorisations	If checked, then the project authorizations will be copied.
Include Project Involvements	If checked, all persons involved in the project will be copied.
Include Project Allocations	If checked, all allocations of people to projects will be copied.
Include Project Versions	If checked, all the project versions will be copied.
Include Project Classifications	If checked, the project classifications will be copied.

The meaning of the other fields:

Project	The code of the project that will be deleted.
Short Code	Short project code of the project that is going to be copied.
Name	The name of the project that will be copied.
Closed	Indicates that the project has already been closed when checked.
Organization	The legal structure under which the project is going to be copied, is realized.
Customer	The customer of the project that is going to be copied.
City	Place where the project that is going to be copied is realized.
Cost Category Postfix	The cost type suffix of the project that is going to be copied.

Delete Projects

This screen allows you to remove all or part of projects.


Invantive
25 Projects
Filter
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Delete Projects
Delete Projects
Project Cluster
Code
Company
City
Name
Customer
Phase
Search
10 rows per page
Search results (25)
Page 1 of 3 >> >|
Change
Project Cluster
Project
Name
Closed
Company
Customer
City
Phase
Include All
Only Specific Components
Include Project
Include Project Authorizations
Include Budgets
Include Contract Budgets
Include Revenues
Include Purchase Orders
Include Latest Estimates
Include Invoice Lines
Include Cash Flows Projections
Include Processes
Include Process Notes
Include Process Units
Include Timesheets
Include Budget Movements
Include Project Involvements
Include Project Allocations
Include Project Versions
Include Documents
Include Draft Invoice Lines
Include Project Classifications
Include Project Relations
Include Process Involvements
Include Process Classifications
Include Process Relations
Include Contracts
Include Contract Processes Generation
Confirmation
Are You Sure?

Project Cluster	Code	Name	Closed	Company	Customer	City	Phase
SO	C204	Beheer Energetic	☐	Mekra	Mekra	Maastricht	Uitvoering
SO	C2108	Ontwikkeling Invantive Melba	☐	Mekra	Nationale Nederlanden	Amsterdam	Uitvoering
SO	C503.DNB IFRS	IFRS compliant DNB rapportage	☐	Mekra	QT Design	Roermond	Uitvoering
IN	IHOL09	Vakantie (Kerstmis etc.) 2009	☐	Mekra	Acme BV	Hierden	Uitvoering
IN	IVAC09	Vacation 2009	☐	Mekra	Acme BV	Hierden	Uitvoering
M	MSLS09	Sales 2009 hoofdproject	☐	Mekra	Acme BV	Hierden	Uitvoering
M	MSLS09.DD.ALG	Sales trajecten 2009	☐	Mekra	Acme BV	Harderwijk	Uitvoering
M	MSLS09.Mekra	Sales Mekra 2009	☐	Mekra	Mekra	Harderwijk	Uitvoering
C	Plein	Plein revisited	☐	FUGRO	Koopman	Eindhoven	Ontwikkeling
IN	POST	Post: algemeen af te handelen.	☐	Mekra	Acme BV	Hierden	Uitvoering
IN	POSTFAC	Post: af te handelen facturen	☐	Mekra	Acme BV	Hierden	Uitvoering
C	Stad	Stad	☐	FUGRO	Koopman	Roermond	Acquisitie
IN	Templates	Templates	☐	Mekra	Acme BV	Hierden	Uitvoering

The meaning of the entry fields is:

Include All	If checked, all items listed below will be deleted.
Include Project	If checked, the project will be deleted. Normally you will never select this without selecting other parts.
Include Project Authorisations	If checked, the project authorizations will be deleted.
Include budgets	If checked, then the budgets will be deleted.

Include Contract Budgets	If checked, the contract budgets will be deleted.
Include Revenues	If checked, then the revenues will be deleted.
Include Purchase Orders	If checked, the purchase assignments will be deleted.
Include Latest Estimates	If checked, the latest estimates will be deleted.
Include Invoice Lines	If checked, then the invoice lines will be deleted.
Include Cash Flows Projections	If checked, the cash flow projections will be deleted.
Take Processes	If checked, the processes will be deleted.
Include Process Notes	If checked, the process notes will be deleted.
Include Process Units	If checked, the process units will be deleted.
Include Timesheets	If checked, then the timesheets will be deleted.
Include Budget Movements	If checked, the budget movements will be deleted.
Include Project Involvements	If checked, then the involvement of people in the project will be deleted.
Include Project Allocations	If checked, then the allocation of persons to the project will be deleted.
Include Project Versions	If checked, the project versions will be deleted.
Include Documents	If checked, the documents will be deleted.
Include Project Classifications	If checked, the project classifications will be deleted.
Include Project Relations	If checked, the project relations will be deleted.
Include Process Involvement	If checked, then all the persons involved in the process of the project will be deleted.
Include Process Classifications	If checked, the process classifications will be deleted.
Include Process Relations	If checked, the process relations will be deleted.
Include Contracts	If checked, the contracts will be deleted.
Include Contract Process Generation	If checked, the contract processes generation will be deleted.
Are you sure?	Only if you also select this one project data will be deleted.

The meaning of the other fields:

Project	The code of the project that will be deleted.
Name	The name of the project that will be deleted.
Closed	Indicates that the project has already been closed when checked.
Business	The legal structure under which the project is realized.
Customer	The buyer of the project.
City	Place where the project is realized.

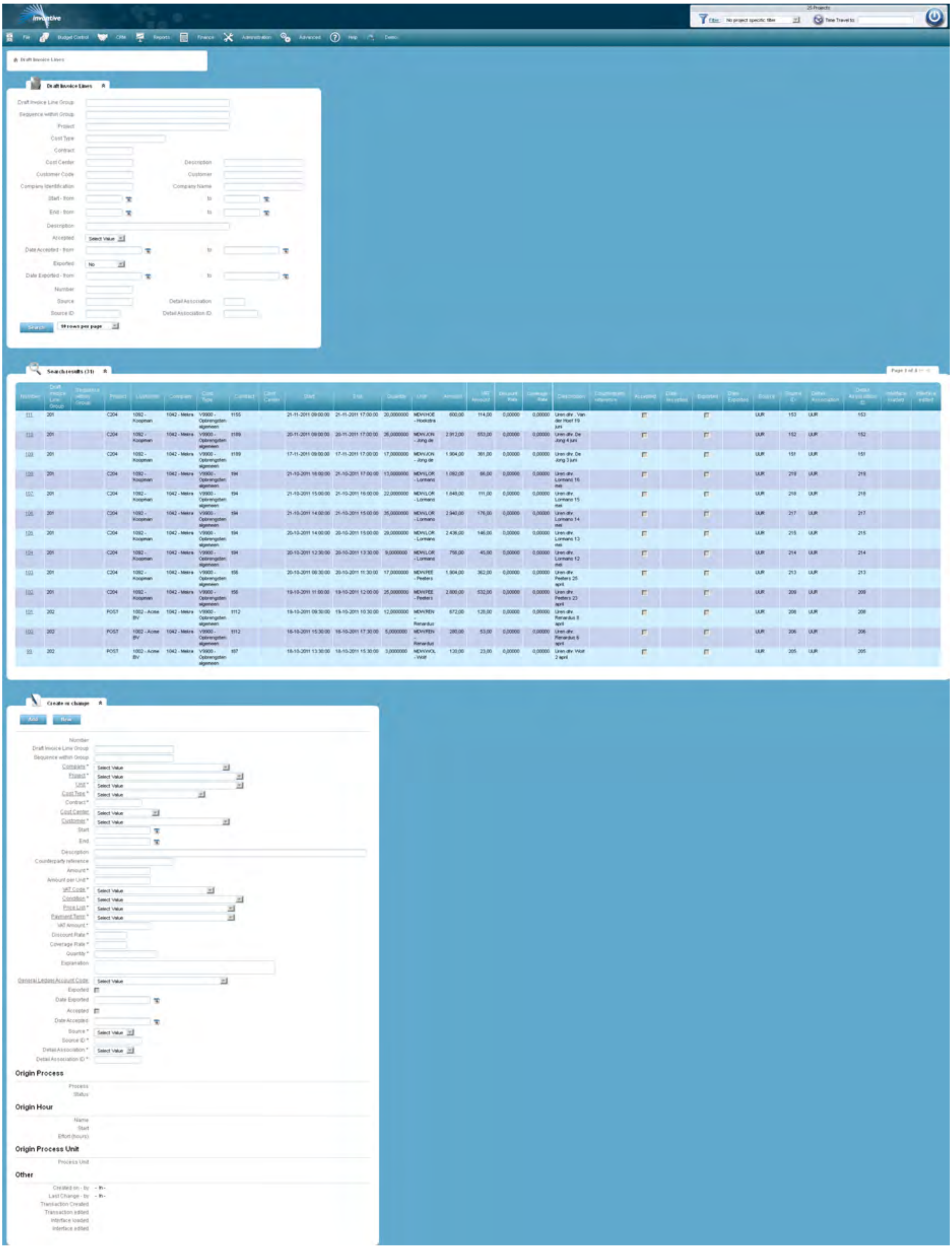
1.2.6.2 Invoicing

Enter text here.

Concept Invoice Lines

In this screen you can register and update Concept Invoice Lines.

Concept invoice lines can either be entered manually or generated through the process Invoicing 487. Concept invoice lines are input for the accounts receivable module of the bookkeeping system.



The meaning of the entry fields is:

Grouping	Concept Invoice Line Group. It is easier to assign concept invoice lines to invoices by sorting concept invoice lines into groups.
Sequence within Group	Sequence of the draft invoice line in the group. By doing this it is easier to provision draft invoice lines in a particular sequence.
Business	Name of the company.
Project	The project to which the invoice refers.

Unit	Reference to a unit as registered in Units 151.
Cost Type	The cost category to which the realization refers. All cost categories can be chosen (costs, revenues, and results).
Contract	The contract within the cost category to which the invoice line refers.
Cost center	Reference to a cost center as defined in the screen Cost Centers 192.
Customer	The customer, where the invoice is sent to. Note that this field is obligatory.
Start	Beginning of the period in which the provided service was performed.
End	End of the period in which the provided service was performed.
Description	Textual explanation of the invoice.
Counterparty Reference	Reference as dictated by the customer.
Amount	Total amount invoiced.
Amount per Unit	Amount per unit.
VAT Code	Reference to a VAT code as registered in VAT Codes 183.
Condition	Reference to a condition as registered in Conditions 212.
Price List	Reference to a price list as registered in price lists 180.
Payment Term	Reference to a payment term as registered in Payment Terms 215.
VAT Amount	The VAT amount of the concept invoice.
Discount Rate	Applied discount rate.
Coverage Rate	Coverage percentage of the concept invoice line after the discount rate is applied.
Quantity	The number of units.
General Ledger Code	Reference to a general ledger code as registered in General Ledger Codes 193.
Exported	Indicator which shows if the concept invoice is exported.
Accepted	Indicator which shows whether the concept invoice is approved to be exported.
Parent	The type of data (message, order, project, etc.) to which you want to link the task.
Source ID	The unique number of the type of data to which you want to link the task. This field together with the field 'Source' makes is possible to retain the relation with the origin of an object for the workflow concept invoice lines.
Detail Association	With the 'Detail Association' and the 'Detail Association ID' the origin of the concept invoice line can be established.
Detail Association ID	With the 'Detail Association ID' and the 'Detail Association' the origin of the concept invoice line can be established.

The meaning of the other fields:

Number	The unique number of the concept invoice line.
Origin Process	
Process	Process from which the concept invoice line occurs.
Process Status	Status of the process, as registered in Process Statuses 167.
Origin Hour	
Name	Reference to a Person as registered in Persons.
Start	The start time of the hour registration.
Effort (hours)	The range of the hour registration.
Origin Process Unit	The process that the process units use for realization of the process.
Process Unit	The process unit
Other	
Created at	The date the draft invoice line was created.
Created with	The software that created the draft invoice line.
Created in	The system in which the draft invoice line was created.
Last Change	The date the draft invoice line was last changed.
Last Change with	The software that performed the last change.
Last Change in	The system that performed the last change.
Transaction Updated	Date and time of the last processed transaction.
Interface Loaded	The date the draft invoice line was initially loaded via an interface program.
Interface Updated	The date the draft invoice line was last updated by an interface program

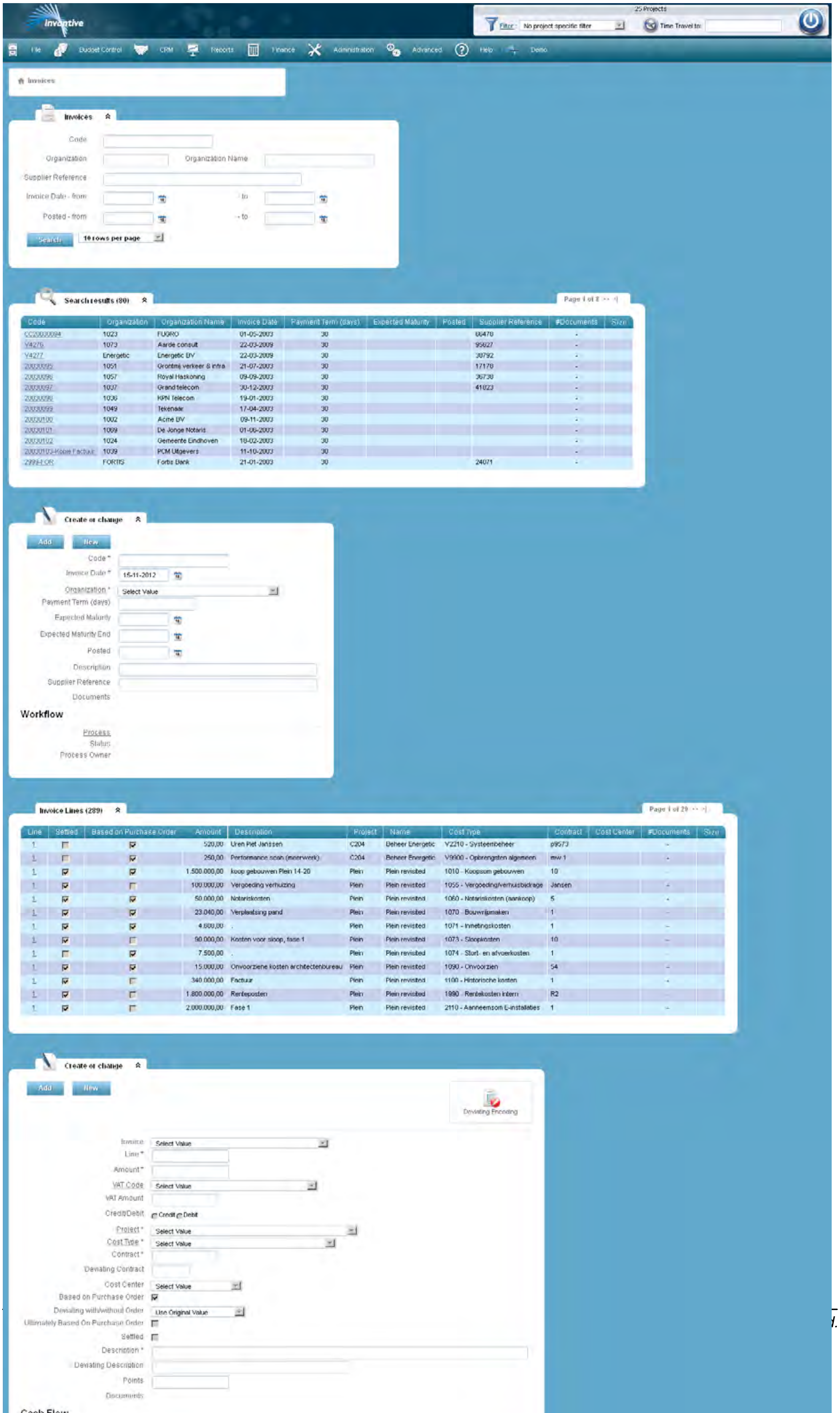
Invoices

In this form you can register and change invoices.

An invoice is a sequence of invoice lines. An invoice line reflects the realized revenue or the cost driver within a project. Obviously it is possible that several invoice lines in one invoice refer to different projects.

Note that in general the invoices and invoice lines are not entered manually, but are automatically uploaded by the financial administration.

Apart from the invoices from the accounts payable accounts receivable administration, it is also possible to process journal entries, for example, for profit taking.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Invoices
Invoices
Search
Search results (80)
Page 1 of 8
Create or change
Add
New
Invoice Lines (289)
Page 1 of 29
Create or change
Add
New
Deviating Encoding

Code
Organization
Organization Name
Supplier Reference
Invoice Date - from
- to
Posted - from
- to
10 rows per page

Search results (80)

Code	Organization	Organization Name	Invoice Date	Payment Term (days)	Expected Maturity	Posted	Supplier Reference	#Documents	Size
CC20030094	1023	FUGRO	01-05-2003	30			66470	-	
Y4276	1073	Aarde consult	22-03-2009	30			95627	-	
Y4277	Energetic	Energetic BV	22-03-2009	30			38792	-	
20030095	1051	Grontmij verkeer & infra	21-07-2003	30			17170	-	
20030096	1057	Royal Haskoning	09-09-2003	30			36730	-	
20030097	1037	Grand telecom	30-12-2003	30			41023	-	
20030098	1036	KPN Telecom	19-01-2003	30				-	
20030099	1049	Tekenaar	17-04-2003	30				-	
20030100	1002	Acme BV	09-11-2003	30				-	
20030101	1069	De Jonge Notaris	01-06-2003	30				-	
20030102	1024	Gemeente Eindhoven	18-02-2003	30				-	
20030103-Kopie Factuur	1039	PCM Uitgevers	11-10-2003	30				-	
2999-FOR	FORTIS	Fortis Bank	21-01-2003	30			24071	-	

Create or change

Code *
Invoice Date * 15-11-2012
Organization * Select Value
Payment Term (days)
Expected Maturity
Expected Maturity End
Posted
Description
Supplier Reference
Documents

Workflow

Process
Status
Process Owner

Invoice Lines (289)

Line	Settled	Based on Purchase Order	Amount	Description	Project	Name	Cost Type	Contract	Cost Center	#Documents	Size
1	☐	☑	520,00	Uren Piet Janssen	C204	Beheer Energetic	V2210 - Systeembeheer	p9573		-	
1	☐	☑	250,00	Performance scan (meerwerk)	C204	Beheer Energetic	V9900 - Opbrengsten algemeen	mw 1		-	
1	☑	☑	1.500.000,00	koop gebouwen Plein 14-20	Plein	Plein revisited	1010 - Koopsom gebouwen	10		-	
1	☑	☐	100.000,00	Vergoeding verhuizing	Plein	Plein revisited	1055 - Vergoeding/verhuisbijdrage	Jansen		-	
1	☑	☑	50.000,00	Notariskosten	Plein	Plein revisited	1060 - Notariskosten (aankoop)	5		-	
1	☑	☑	23.040,00	Verplaatsing pand	Plein	Plein revisited	1070 - Bouwrijpmaken	1		-	
1	☑	☑	4.600,00	.	Plein	Plein revisited	1071 - Inmetingskosten	1		-	
1	☑	☐	90.000,00	Kosten voor sloop, fase 1	Plein	Plein revisited	1073 - Sloopkosten	10		-	
1	☐	☑	7.500,00	.	Plein	Plein revisited	1074 - Stort- en afvoerkosten	1		-	
1	☑	☑	15.000,00	Onvoorziene kosten architectenbureau	Plein	Plein revisited	1090 - Onvoorzien	54		-	
1	☑	☐	340.000,00	Factuur	Plein	Plein revisited	1100 - Historische kosten	1		-	
1	☑	☐	1.800.000,00	Renteposten	Plein	Plein revisited	1990 - Rentekosten intern	R2		-	
1	☑	☐	2.000.000,00	Fase 1	Plein	Plein revisited	2110 - Aanneemsom E-installaties	1		-	

Create or change

Invoice Select Value
Line *
Amount *
VAT Code Select Value
VAT Amount
Credit/Debit ○ Credit ○ Debit
Project * Select Value
Cost Type * Select Value
Contract *
Deviating Contract
Cost Center Select Value
Based on Purchase Order ☑
Deviating with/without Order Use Original Value
Ultimately Based On Purchase Order ☐
Settled ☐
Description *
Deviating Description
Points
Documents

Cash Flow

The meaning of the entry fields is:

Invoice	
Code	The code of the invoice. In general the internally assigned invoice number will be used here.
Invoice Date	The date as registered on the invoice.
Organization	The organization (supplier) that has sent the invoice or the customer where the bill has been sent to. Note that this field is obligatory. Choose a generic supplier or buyer in the case of journal entries from the general ledger. The list of suppliers used when entering is restricted to suppliers who have a code that is allowed to be used on a project in the filter. For each project, you can manage with a pattern, from which supplier invoices may be registered.
Payment Term (days)	The payment period in days of the invoice. This information is used when calculating the cash flow.
Expected Maturity	The date on which the cash flow is expected to begin.
Expected Maturity End	The date on which the cash flow is expected to end. The maturity date is only relevant if the cash flow projection method needs it.
Booked	Date on which the invoice is recorded.
Description	An explanation of the invoice.
Supplier Reference	The unique feature of the invoice of the sender. This field can be used to register the invoice number of the supplier in case the code of the invoice is based on its own invoice numbering.
Documents	Linked documents, see Linking Documents 29.
Invoice Lines	
Invoice	An invoice can be sent by a supplier, can be sent to a client or can be created by the ledger system. An invoice can contain several Invoice Lines 138.
Line	Indicates which Invoice Lines 138 it concerns.
Amount	The amount invoiced. This normally will be the amount without VAT. If your organization is not subject to VAT, the amount of the balance has to be used (including VAT).
VAT Code	The VAT code that applies to the invoice.
VAT Amount	The VAT Amount.
Credit/debit	Indicates whether it concerns payment (debit) or a receipt (credit).
Project	The project to which the invoice refers.
Cost Type	The cost category. All cost categories can be chosen (costs, revenues, and results).
Contract	The contract within the cost category to which the invoice line refers.
Deviating Contract	Here you can indicate the deviating contract if applicable. If the deviating contract is entered, it will override the standard contract in the reports.
Cost center	Reference to a cost center as defined in the screen Cost Centers 192.
With Purchase Order	In case of a cost driver: is the realization based on an order? In case of a revenue: is the realization based on a contractual sales agreement?
Deviating With/Without Purchase Order	Using this drop-down menu, you can override the field "With Purchase Order" originating from the ERP system.
Ultimately based on Purchase Order	Ultimately based on purchase order is the result of originally based on purchase order and deviating with purchase order.
Settled	If the box is checked, the invoice line is made payable or received (revenue cost category).
Description	A description of the property, activity or situation to which the invoice relates to.
Points	Number of points awarded for this transaction.
Documents	Linked documents, see Linking Documents 29.
Expected Maturity	The expected date when the cash flow starts.
Expected Maturity End	The expected date when the cash flow ends.
Distribution Method	The way the cash flow is distributed in time.

The meaning of the other fields:

Workflow	
Process	Reference to the process from which the invoice comes from, as registered in Processes

	53.
Status	Reference to the status of the process from which the invoice comes from, as registered in Processes 53.
Process Holder	The process holder as registered in Processes 53.

The meaning of the action buttons:

Process	Reference to the process from which the invoice comes from, as registered in Processes 53.

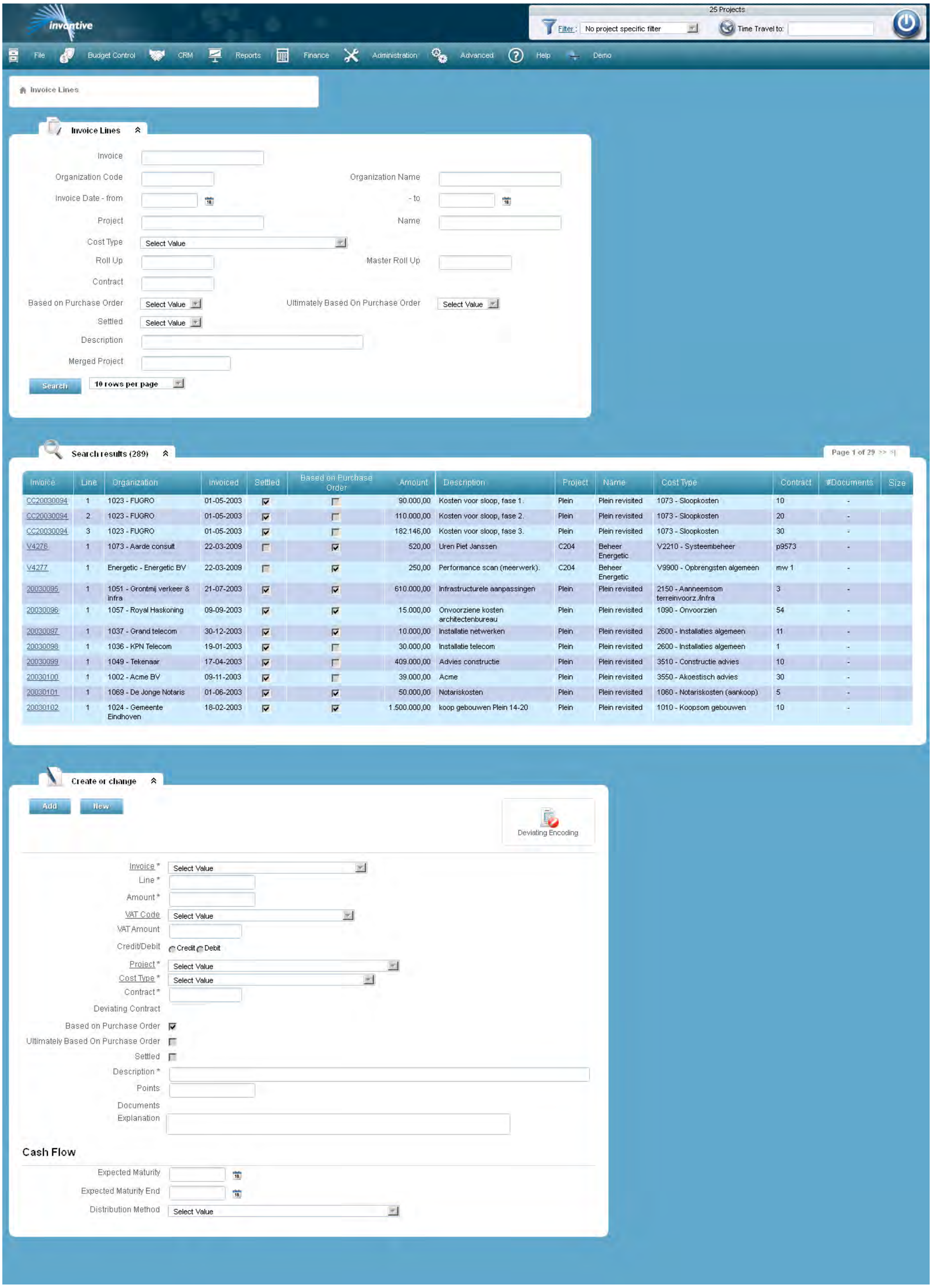
Invoice Lines

In this screen you can register and modify Invoice lines.

In the screen Invoices 135 you can also see the invoice lines, but you cannot search them.

An invoice line reflects the realized revenue or the cost driver within a project. An invoice line can also display the profit taking of the project. It is possible that several invoice lines in one invoice refer to different projects.

Note that in general the invoices and invoice lines are not entered manually, but are automatically uploaded by the financial administration.


invantive
25 Projects
Filter : No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Invoice Lines
Invoice Lines
Invoice
Organization Code
Organization Name
Invoice Date - from
- to
Project
Name
Cost Type
Select Value
Roll Up
Master Roll Up
Contract
Based on Purchase Order
Select Value
Ultimately Based On Purchase Order
Select Value
Settled
Select Value
Description
Merged Project
Search
10 rows per page
Search results (289)
Page 1 of 29 >> >|
Create or change
Add
New
Deviating Encoding
Invoice *
Select Value
Line *
Amount *
VAT Code
Select Value
VAT Amount
Credit/Debit
○ Credit ○ Debit
Project *
Select Value
Cost Type *
Select Value
Contract *
Deviating Contract
Based on Purchase Order ☑
Ultimately Based On Purchase Order ☐
Settled ☐
Description *
Points
Documents
Explanation
Cash Flow
Expected Maturity
Expected Maturity End
Distribution Method
Select Value

Search results (289)

Invoice	Line	Organization	Invoiced	Settled	Based on Purchase Order	Amount	Description	Project	Name	Cost Type	Contract	#Documents	Size
CC20030094	1	1023 - FUGRO	01-05-2003	☑	☐	90.000,00	Kosten voor sloop, fase 1.	Plein	Plein revisited	1073 - Sloopkosten	10	-	
CC20030094	2	1023 - FUGRO	01-05-2003	☑	☐	110.000,00	Kosten voor sloop, fase 2.	Plein	Plein revisited	1073 - Sloopkosten	20	-	
CC20030094	3	1023 - FUGRO	01-05-2003	☑	☐	182.146,00	Kosten voor sloop, fase 3.	Plein	Plein revisited	1073 - Sloopkosten	30	-	
V4276	1	1073 - Aarde consult	22-03-2009	☐	☑	520,00	Uren Piet Janssen	C204	Beheer Energetic	V2210 - Systeembeheer	p9573	-	
V4277	1	Energetic - Energetic BV	22-03-2009	☐	☑	250,00	Performance scan (meerwerk).	C204	Beheer Energetic	V9900 - Opbrengsten algemeen	mw 1	-	
20030095	1	1051 - Grontmij verkeer & infra	21-07-2003	☑	☑	610.000,00	Infrastructurele aanpassingen	Plein	Plein revisited	2150 - Aanneemsom terreinvoorz./infra	3	-	
20030096	1	1057 - Royal Haskoning	09-09-2003	☑	☑	15.000,00	Onvoorziene kosten architectenbureau	Plein	Plein revisited	1090 - Onvoorzien	54	-	
20030097	1	1037 - Grand telecom	30-12-2003	☑	☑	10.000,00	Installatie netwerken	Plein	Plein revisited	2600 - Installaties algemeen	11	-	
20030098	1	1036 - KPN Telecom	19-01-2003	☑	☐	30.000,00	Installatie telecom	Plein	Plein revisited	2600 - Installaties algemeen	1	-	
20030099	1	1049 - Tekenaar	17-04-2003	☑	☐	409.000,00	Advies constructie	Plein	Plein revisited	3510 - Constructie advies	10	-	
20030100	1	1002 - Acme BV	09-11-2003	☑	☐	39.000,00	Acme	Plein	Plein revisited	3550 - Akoestisch advies	30	-	
20030101	1	1069 - De Jonge Notaris	01-06-2003	☑	☑	50.000,00	Notariskosten	Plein	Plein revisited	1060 - Notariskosten (aankoop)	5	-	
20030102	1	1024 - Gemeente Eindhoven	18-02-2003	☑	☑	1.500.000,00	koop gebouwen Plein 14-20	Plein	Plein revisited	1010 - Koopsom gebouwen	10	-	

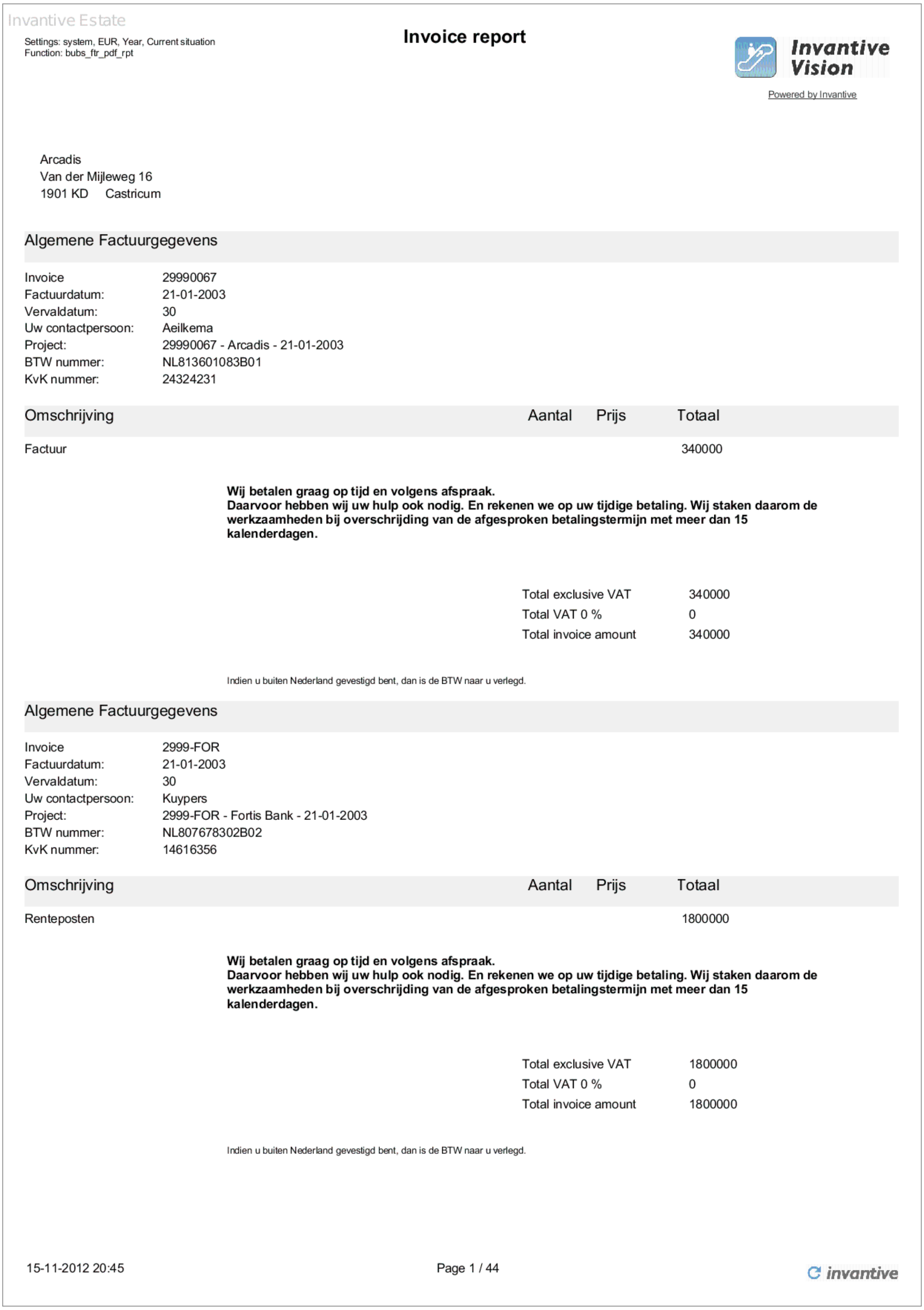
The meaning of the entry fields is:

Invoice	The invoice code. In general the internally assigned invoice number will be used here.
Line	The line number within the invoice.
Amount	The amount invoiced. This normally will be the amount without VAT. If your organization is

	not subject to VAT, the amount of the balance has to be used (including VAT).
VAT Code	The VAT code that applies to the invoice.
VAT Amount	The VAT amount on the invoice.
Credit/debit	In case of a cost driver: does it concerns a regular entry (debit) or a credit entry? In case of a revenue: does it concerns a regular entry (credit) or debit entry?
Project	The project to which the realization refers.
Cost Type	The cost category to which the realization refers. All cost categories can be chosen (costs, revenues, and results).
Contract	The contract within the cost category to which the invoice line refers.
Deviating Contract	Here you can indicate the deviating contract if applicable. If the deviating contract is entered, it will override the standard contract in the reports.
With Purchase Order	In case of a cost driver: is the realization based on an order? In case of a revenue: is the realization based on a contractual sales agreement?
Ultimately based on Purchase Order	Ultimately based on purchase order is the result of originally based on purchase order and deviating with purchase order.
Settled	If the box is checked, the invoice line is made payable or received (revenue cost category).
Description	A description of the products, activity or situation to which the invoice relates to.
Points	Number of points awarded for this transaction.
Documents	Linked documents, see Linking Documents 29.
Explanation	Possible explanation.
Expected Maturity	The expected date when the cash flow starts.
Expected Maturity End	The expected date when the cash flow ends.
Distribution Method	The way the cash flow is distributed in time.

Invoice Report

Enter text here.



Invantive Estate

Settings: system, EUR, Year, Current situation
Function: bubs_ftr_pdf_rpt

Invoice report

Invantive Vision
Powered by Invantive

Arcadis
Van der Mijleweg 16
1901 KD Castricum

Algemene Factuurgegevens

Invoice	29990067
Factuurdatum:	21-01-2003
Vervaldatum:	30
Uw contactpersoon:	Aeilkema
Project:	29990067 - Arcadis - 21-01-2003
BTW nummer:	NL813601083B01
KvK nummer:	24324231

Omschrijving	Aantal	Prijs	Totaal
Factuur			340000

**Wij betalen graag op tijd en volgens afspraak.
Daarvoor hebben wij uw hulp ook nodig. En rekenen we op uw tijdige betaling. Wij staken daarom de werkzaamheden bij overschrijding van de afgesproken betalingstermijn met meer dan 15 kalenderdagen.**

Total exclusive VAT	340000
Total VAT 0 %	0
Total invoice amount	340000

Indien u buiten Nederland gevestigd bent, dan is de BTW naar u verlegd.

Algemene Factuurgegevens

Invoice	2999-FOR
Factuurdatum:	21-01-2003
Vervaldatum:	30
Uw contactpersoon:	Kuypers
Project:	2999-FOR - Fortis Bank - 21-01-2003
BTW nummer:	NL807678302B02
KvK nummer:	14616356

Omschrijving	Aantal	Prijs	Totaal
Renteposten			1800000

**Wij betalen graag op tijd en volgens afspraak.
Daarvoor hebben wij uw hulp ook nodig. En rekenen we op uw tijdige betaling. Wij staken daarom de werkzaamheden bij overschrijding van de afgesproken betalingstermijn met meer dan 15 kalenderdagen.**

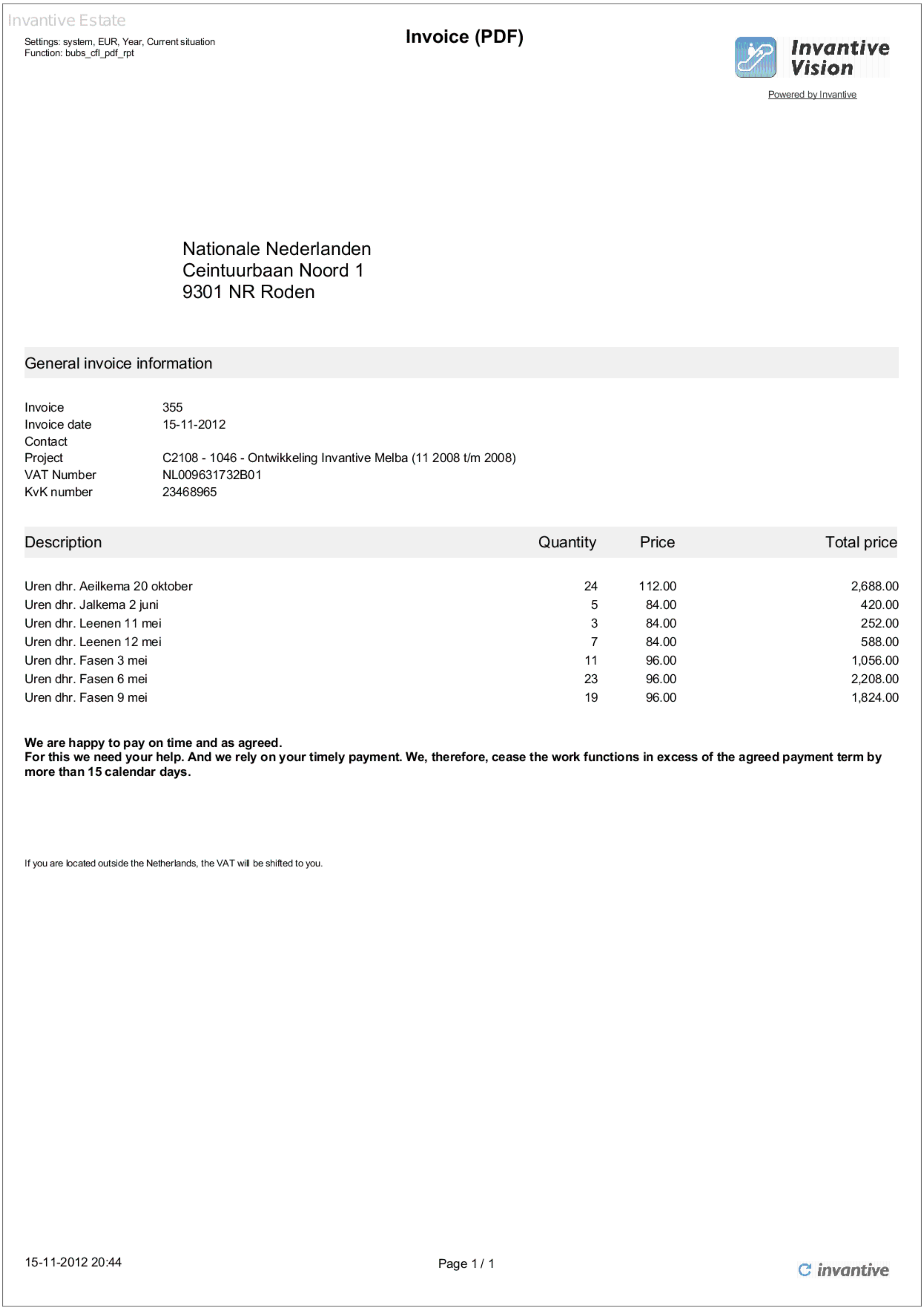
Total exclusive VAT	1800000
Total VAT 0 %	0
Total invoice amount	1800000

Indien u buiten Nederland gevestigd bent, dan is de BTW naar u verlegd.

15-11-2012 20:45 Page 1 / 44

Invoice

Enter text here.



Invantive Estate

Settings: system, EUR, Year, Current situation
Function: bubs_cfl_pdf_rpt

Invoice (PDF)

Invantive Vision

Powered by Invantive

Nationale Nederlanden
Ceintuurbaan Noord 1
9301 NR Roden

General invoice information

Invoice	355
Invoice date	15-11-2012
Contact	
Project	C2108 - 1046 - Ontwikkeling Invantive Melba (11 2008 t/m 2008)
VAT Number	NL009631732B01
KvK number	23468965

Description	Quantity	Price	Total price
Uren dhr. Aeilkema 20 oktober	24	112.00	2,688.00
Uren dhr. Jalkema 2 juni	5	84.00	420.00
Uren dhr. Leenen 11 mei	3	84.00	252.00
Uren dhr. Leenen 12 mei	7	84.00	588.00
Uren dhr. Fasen 3 mei	11	96.00	1,056.00
Uren dhr. Fasen 6 mei	23	96.00	2,208.00
Uren dhr. Fasen 9 mei	19	96.00	1,824.00

We are happy to pay on time and as agreed.
For this we need your help. And we rely on your timely payment. We, therefore, cease the work functions in excess of the agreed payment term by more than 15 calendar days.

If you are located outside the Netherlands, the VAT will be shifted to you.

15-11-2012 20:44

Page 1 / 1

invantive

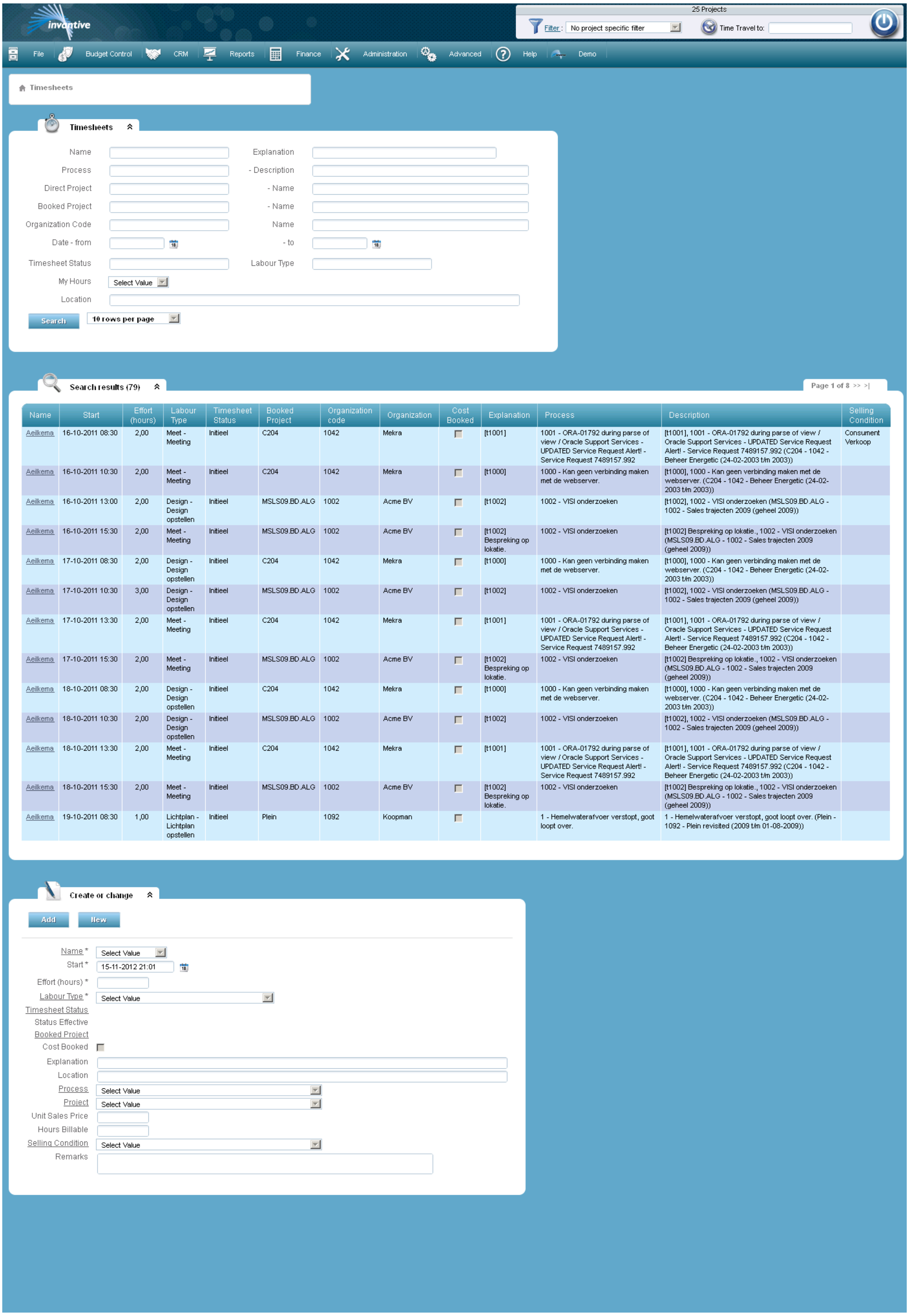
1.2.6.3 Time Management

Enter text here.

Hours

In this form you can register and change worked hours.

A time registration is part of a balanced timesheet and is used to manage and control the use of man power. he transfer from time registrations into invoice lines happens in the line viaDraft Invoice Lines 132 and the general ledger.


invantive
25 Projects
Filter : No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Timesheets
Timesheets
Name
Explanation
Process
- Description
Direct Project
- Name
Booked Project
- Name
Organization Code
Name
Date - from
- to
Timesheet Status
Labour Type
My Hours
Select Value
Location
Search
10 rows per page
Search results (79)
Page 1 of 8 >> >|
Create or change
Add
New
Name *
Select Value
Start *
Effort (hours) *
Labour Type *
Select Value
Timesheet Status
Status Effective
Booked Project
Cost Booked
Explanation
Location
Process
Select Value
Project
Select Value
Unit Sales Price
Hours Billable
Selling Condition
Select Value
Remarks

Name	Start	Effort (hours)	Labour Type	Timesheet Status	Booked Project	Organization code	Organization	Cost Booked	Explanation	Process	Description	Selling Condition
Aeilkema	16-10-2011 08:30	2,00	Meet - Meeting	Initieel	C204	1042	Mekra	☐	[t1001]	1001 - ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992	[t1001], 1001 - ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992 (C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003))	Consument Verkoop
Aeilkema	16-10-2011 10:30	2,00	Meet - Meeting	Initieel	C204	1042	Mekra	☐	[t1000]	1000 - Kan geen verbinding maken met de webserver.	[t1000], 1000 - Kan geen verbinding maken met de webserver. (C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003))	
Aeilkema	16-10-2011 13:00	2,00	Design - Design opstellen	Initieel	MSLS09.BD.ALG	1002	Acme BV	☐	[t1002]	1002 - VISI onderzoeken	[t1002], 1002 - VISI onderzoeken (MSLS09.BD.ALG - 1002 - Sales trajecten 2009 (geheel 2009))	
Aeilkema	16-10-2011 15:30	2,00	Meet - Meeting	Initieel	MSLS09.BD.ALG	1002	Acme BV	☐	[t1002] Bespreking op lokatie.	1002 - VISI onderzoeken	[t1002] Bespreking op lokatie., 1002 - VISI onderzoeken (MSLS09.BD.ALG - 1002 - Sales trajecten 2009 (geheel 2009))	
Aeilkema	17-10-2011 08:30	2,00	Design - Design opstellen	Initieel	C204	1042	Mekra	☐	[t1000]	1000 - Kan geen verbinding maken met de webserver.	[t1000], 1000 - Kan geen verbinding maken met de webserver. (C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003))	
Aeilkema	17-10-2011 10:30	3,00	Design - Design opstellen	Initieel	MSLS09.BD.ALG	1002	Acme BV	☐	[t1002]	1002 - VISI onderzoeken	[t1002], 1002 - VISI onderzoeken (MSLS09.BD.ALG - 1002 - Sales trajecten 2009 (geheel 2009))	
Aeilkema	17-10-2011 13:30	2,00	Meet - Meeting	Initieel	C204	1042	Mekra	☐	[t1001]	1001 - ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992	[t1001], 1001 - ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992 (C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003))	
Aeilkema	17-10-2011 15:30	2,00	Meet - Meeting	Initieel	MSLS09.BD.ALG	1002	Acme BV	☐	[t1002] Bespreking op lokatie.	1002 - VISI onderzoeken	[t1002] Bespreking op lokatie., 1002 - VISI onderzoeken (MSLS09.BD.ALG - 1002 - Sales trajecten 2009 (geheel 2009))	
Aeilkema	18-10-2011 08:30	2,00	Design - Design opstellen	Initieel	C204	1042	Mekra	☐	[t1000]	1000 - Kan geen verbinding maken met de webserver.	[t1000], 1000 - Kan geen verbinding maken met de webserver. (C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003))	
Aeilkema	18-10-2011 10:30	2,00	Design - Design opstellen	Initieel	MSLS09.BD.ALG	1002	Acme BV	☐	[t1002]	1002 - VISI onderzoeken	[t1002], 1002 - VISI onderzoeken (MSLS09.BD.ALG - 1002 - Sales trajecten 2009 (geheel 2009))	
Aeilkema	18-10-2011 13:30	2,00	Meet - Meeting	Initieel	C204	1042	Mekra	☐	[t1001]	1001 - ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992	[t1001], 1001 - ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request Alert! - Service Request 7489157.992 (C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003))	
Aeilkema	18-10-2011 15:30	2,00	Meet - Meeting	Initieel	MSLS09.BD.ALG	1002	Acme BV	☐	[t1002] Bespreking op lokatie.	1002 - VISI onderzoeken	[t1002] Bespreking op lokatie., 1002 - VISI onderzoeken (MSLS09.BD.ALG - 1002 - Sales trajecten 2009 (geheel 2009))	
Aeilkema	19-10-2011 08:30	1,00	Lichtplan - Lichtplan opstellen	Initieel	Plein	1092	Koopman	☐		1 - Hemelwaterafvoer verstopt, goot loopt over.	1 - Hemelwaterafvoer verstopt, goot loopt over. (Plein - 1092 - Plein revisited (2009 t/m 01-08-2009))	

Start * 15-11-2012 21:01

Cost Booked ☐

The meaning of the entry fields is:

Name	The name of the employee. You can enter hours on behalf of other employees.

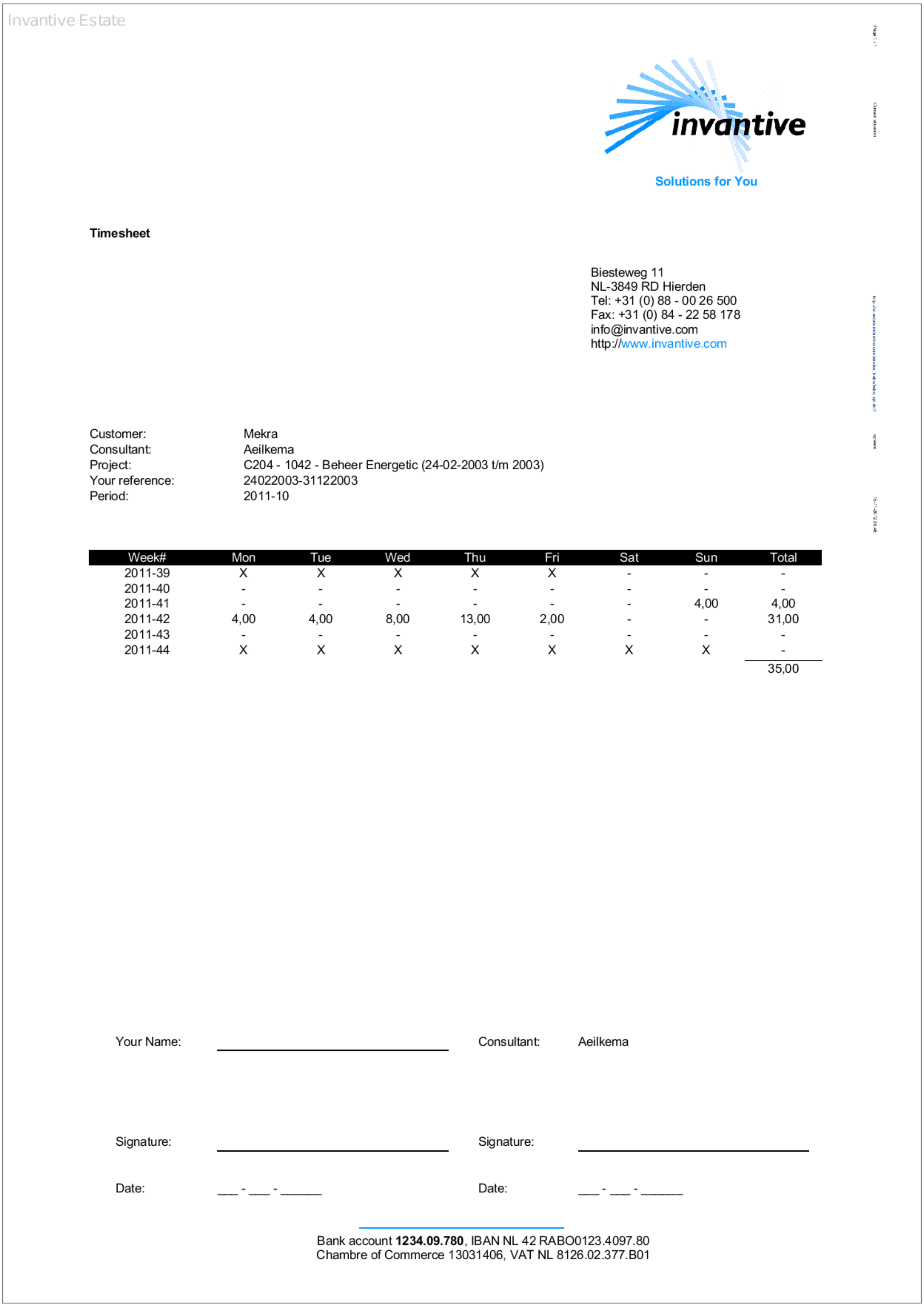
Start	The date and time when the effort started.
Effort (hours)	The amount of spent hours.
Labor Type	The type of labor which can be used to group the spent hours and can affect the allocated costs.
Explanation	A short explanation of the performed activities.
Location	Location where the work was performed.
Process	Either ‘Process’ or ‘Project’ has to be entered. Here you can select the process to which the time was spent. Only open processes are displayed. It is not possible to write hours on closed processes.
Project	Either ‘Process’ or ‘Project’ has to be entered. Here you can select the project to which the time was spent. Link the hours to a process if there is a process to which the hours spent can be linked. Process based timesheets can be analysed more thoroughly.
Unit Sales Price	Possibly different unit sales price per unit for usage in invoicing.
Hours Billable	The number of hours that can be invoiced.

The meaning of the other fields:

Timesheet Status	Reference to a timesheet status as registered in Timesheet Statuses 186.
Booked Project	Reference to a project as registered in Projects 124.
Cost Booked	Indicates if the hours of this time registration have been booked yet.

Timesheets

This report provides an overview of the hours a consultant or an employee per day worked on a project.



Invantive Estate

invantive
Solutions for You

Timesheet

Biesteweg 11
NL-3849 RD Hierden
Tel: +31 (0) 88 - 00 26 500
Fax: +31 (0) 84 - 22 58 178
info@invantive.com
http://www.invantive.com

Customer: Mekra
Consultant: Aeilkema
Project: C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003)
Your reference: 24022003-31122003
Period: 2011-10

Week#	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Total
2011-39	X	X	X	X	X	-	-	-
2011-40	-	-	-	-	-	-	-	-
2011-41	-	-	-	-	-	-	4,00	4,00
2011-42	4,00	4,00	8,00	13,00	2,00	-	-	31,00
2011-43	-	-	-	-	-	-	-	-
2011-44	X	X	X	X	X	X	X	-
								35,00

Your Name: ____________________ Consultant: Aeilkema

Signature: ____________________ Signature: ____________________

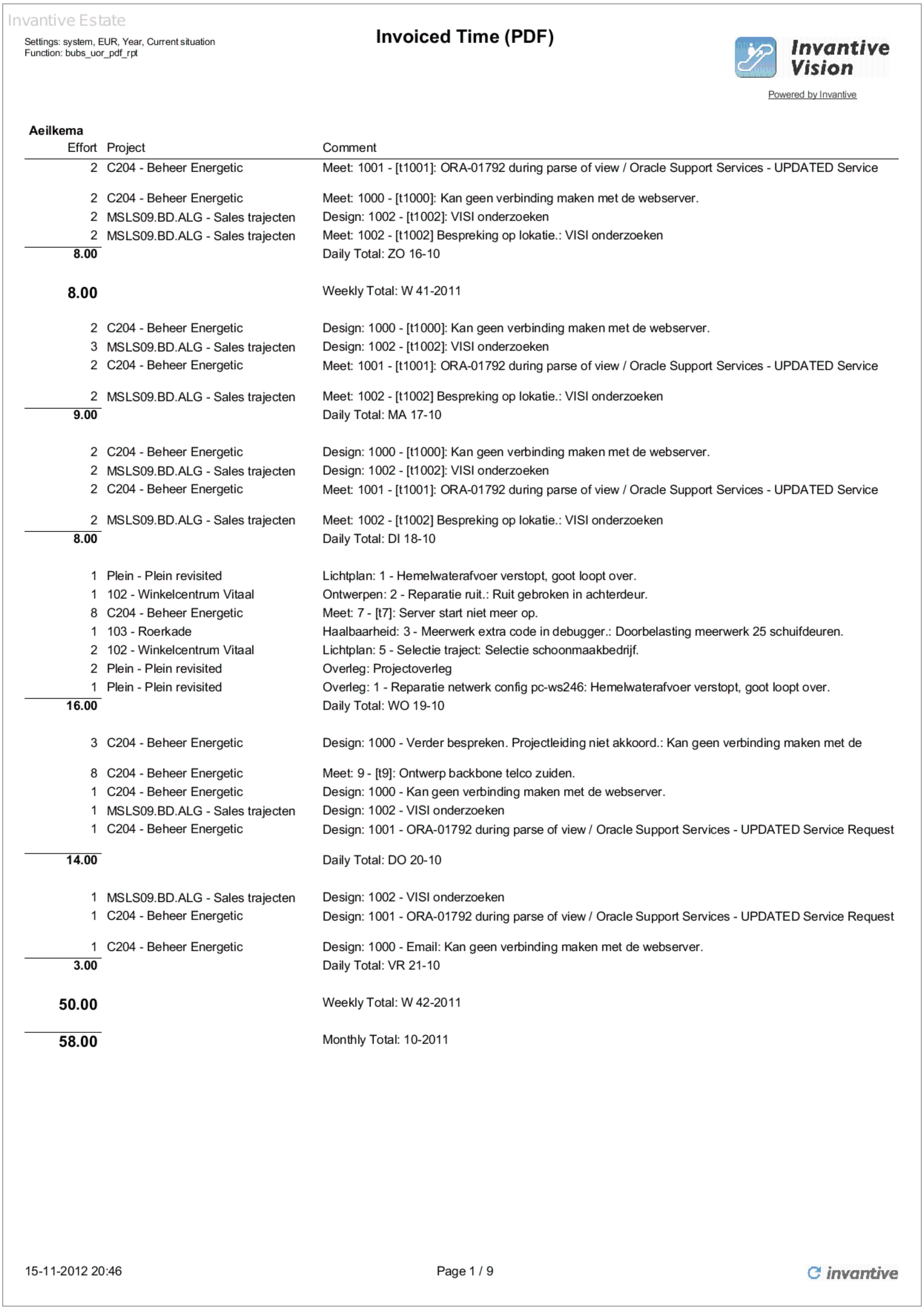
Date: ___ - ___ - ______ Date: ___ - ___ - ______

Bank account **1234.09.780**, IBAN NL 42 RABO0123.4097.80
Chambre of Commerce 13031406, VAT NL 8126.02.377.B01

Invoiced Time

This report provides a detailed overview of the hours a consultant or an employee has worked on a process or a project per day.

Warning! The report is grouped by year, month, and then week. This can cause that in the end of a year a month could be cut in half and that in the end of the month a week could be cut in half.



Invantive Estate

Settings: system, EUR, Year, Current situation
Function: bubs_uor_pdf_rpt

Invoiced Time (PDF)

Powered by Invantive

Aeilkema

Effort	Project	Comment
2	C204 - Beheer Energetic	Meet: 1001 - [t1001]: ORA-01792 during parse of view / Oracle Support Services - UPDATED Service
2	C204 - Beheer Energetic	Meet: 1000 - [t1000]: Kan geen verbinding maken met de webserver.
2	MSLS09.BD.ALG - Sales trajecten	Design: 1002 - [t1002]: VISI onderzoeken
2	MSLS09.BD.ALG - Sales trajecten	Meet: 1002 - [t1002] Bespreking op lokatie.: VISI onderzoeken
8.00		Daily Total: ZO 16-10
8.00		Weekly Total: W 41-2011
2	C204 - Beheer Energetic	Design: 1000 - [t1000]: Kan geen verbinding maken met de webserver.
3	MSLS09.BD.ALG - Sales trajecten	Design: 1002 - [t1002]: VISI onderzoeken
2	C204 - Beheer Energetic	Meet: 1001 - [t1001]: ORA-01792 during parse of view / Oracle Support Services - UPDATED Service
2	MSLS09.BD.ALG - Sales trajecten	Meet: 1002 - [t1002] Bespreking op lokatie.: VISI onderzoeken
9.00		Daily Total: MA 17-10
2	C204 - Beheer Energetic	Design: 1000 - [t1000]: Kan geen verbinding maken met de webserver.
2	MSLS09.BD.ALG - Sales trajecten	Design: 1002 - [t1002]: VISI onderzoeken
2	C204 - Beheer Energetic	Meet: 1001 - [t1001]: ORA-01792 during parse of view / Oracle Support Services - UPDATED Service
2	MSLS09.BD.ALG - Sales trajecten	Meet: 1002 - [t1002] Bespreking op lokatie.: VISI onderzoeken
8.00		Daily Total: DI 18-10
1	Plein - Plein revisited	Lichtplan: 1 - Hemelwaterafvoer verstopt, goot loopt over.
1	102 - Winkelcentrum Vitaal	Ontwerpen: 2 - Reparatie ruit.: Ruit gebroken in achterdeur.
8	C204 - Beheer Energetic	Meet: 7 - [t7]: Server start niet meer op.
1	103 - Roerkade	Haalbaarheid: 3 - Meerwerk extra code in debugger.: Doorbelasting meerwerk 25 schuifdeuren.
2	102 - Winkelcentrum Vitaal	Lichtplan: 5 - Selectie traject: Selectie schoonmaakbedrijf.
2	Plein - Plein revisited	Overleg: Projectoverleg
1	Plein - Plein revisited	Overleg: 1 - Reparatie netwerk config pc-ws246: Hemelwaterafvoer verstopt, goot loopt over.
16.00		Daily Total: WO 19-10
3	C204 - Beheer Energetic	Design: 1000 - Verder bespreken. Projectleiding niet akkoord.: Kan geen verbinding maken met de
8	C204 - Beheer Energetic	Meet: 9 - [t9]: Ontwerp backbone telco zuiden.
1	C204 - Beheer Energetic	Design: 1000 - Kan geen verbinding maken met de webserver.
1	MSLS09.BD.ALG - Sales trajecten	Design: 1002 - VISI onderzoeken
1	C204 - Beheer Energetic	Design: 1001 - ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request
14.00		Daily Total: DO 20-10
1	MSLS09.BD.ALG - Sales trajecten	Design: 1002 - VISI onderzoeken
1	C204 - Beheer Energetic	Design: 1001 - ORA-01792 during parse of view / Oracle Support Services - UPDATED Service Request
1	C204 - Beheer Energetic	Design: 1000 - Email: Kan geen verbinding maken met de webserver.
3.00		Daily Total: VR 21-10
50.00		Weekly Total: W 42-2011
58.00		Monthly Total: 10-2011

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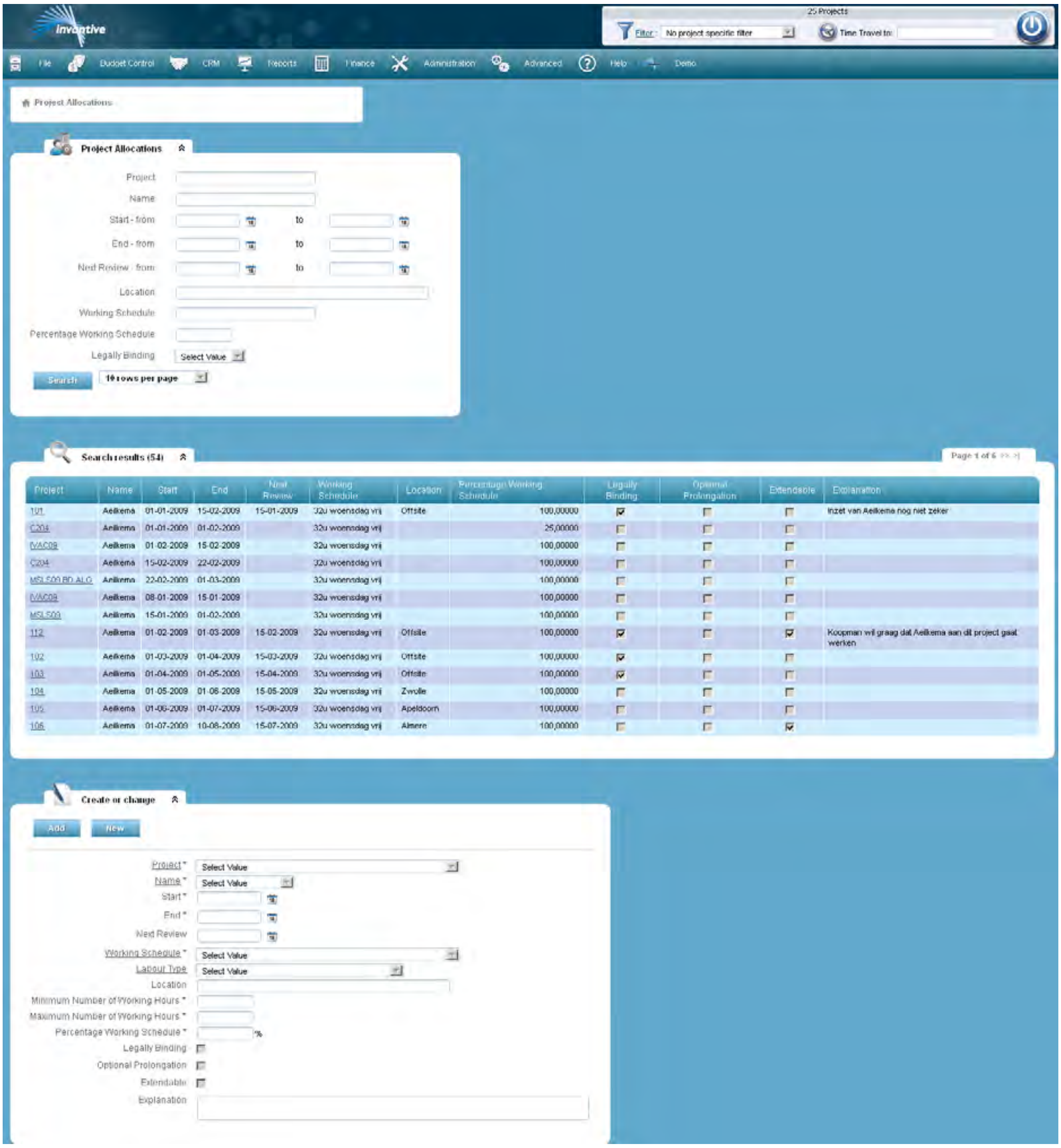
Project Allocations

In this screen project allocations can be registered and modified. The definition of a project allocation is the assignment of people to projects.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Project Allocations
Project Allocations
Project
Name
Start - from
to
End - from
to
Next Review - from
to
Location
Working Schedule
Percentage Working Schedule
Legally Binding
Select Value
Search
10 rows per page
Search results (54)
Page 1 of 6
Create or change
Add
New
Project *
Name *
Start *
End *
Next Review
Working Schedule *
Labour Type
Location
Minimum Number of Working Hours *
Maximum Number of Working Hours *
Percentage Working Schedule *
Legally Binding
Optional Prolongation
Extendable
Explanation
Select Value
%

Project	Name	Start	End	Next Review	Working Schedule	Location	Percentage Working Schedule	Legally Binding	Optional Prolongation	Extendable	Explanation
101	Aeilkema	01-01-2009	15-02-2009	15-01-2009	32u woensdag vrij	Offsite	100,00000	☑	☐	☐	Inzet van Aeilkema nog niet zeker
C204	Aeilkema	01-01-2009	01-02-2009		32u woensdag vrij		25,00000	☐	☐	☐	
IVAC09	Aeilkema	01-02-2009	15-02-2009		32u woensdag vrij		100,00000	☐	☐	☐	
C204	Aeilkema	15-02-2009	22-02-2009		32u woensdag vrij		100,00000	☐	☐	☐	
MSL509 BD ALG	Aeilkema	22-02-2009	01-03-2009		32u woensdag vrij		100,00000	☐	☐	☐	
IVAC09	Aeilkema	08-01-2009	15-01-2009		32u woensdag vrij		100,00000	☐	☐	☐	
MSL509	Aeilkema	15-01-2009	01-02-2009		32u woensdag vrij		100,00000	☐	☐	☐	
112	Aeilkema	01-02-2009	01-03-2009	15-02-2009	32u woensdag vrij	Offsite	100,00000	☑	☐	☑	Koopman wil graag dat Aeilkema aan dit project gaat werken
102	Aeilkema	01-03-2009	01-04-2009	15-03-2009	32u woensdag vrij	Offsite	100,00000	☑	☐	☐	
103	Aeilkema	01-04-2009	01-05-2009	15-04-2009	32u woensdag vrij	Offsite	100,00000	☑	☐	☐	
104	Aeilkema	01-05-2009	01-06-2009	15-05-2009	32u woensdag vrij	Zwolle	100,00000	☐	☐	☐	
105	Aeilkema	01-06-2009	01-07-2009	15-06-2009	32u woensdag vrij	Apeldoorn	100,00000	☐	☐	☐	
106	Aeilkema	01-07-2009	10-08-2009	15-07-2009	32u woensdag vrij	Almere	100,00000	☐	☐	☑	

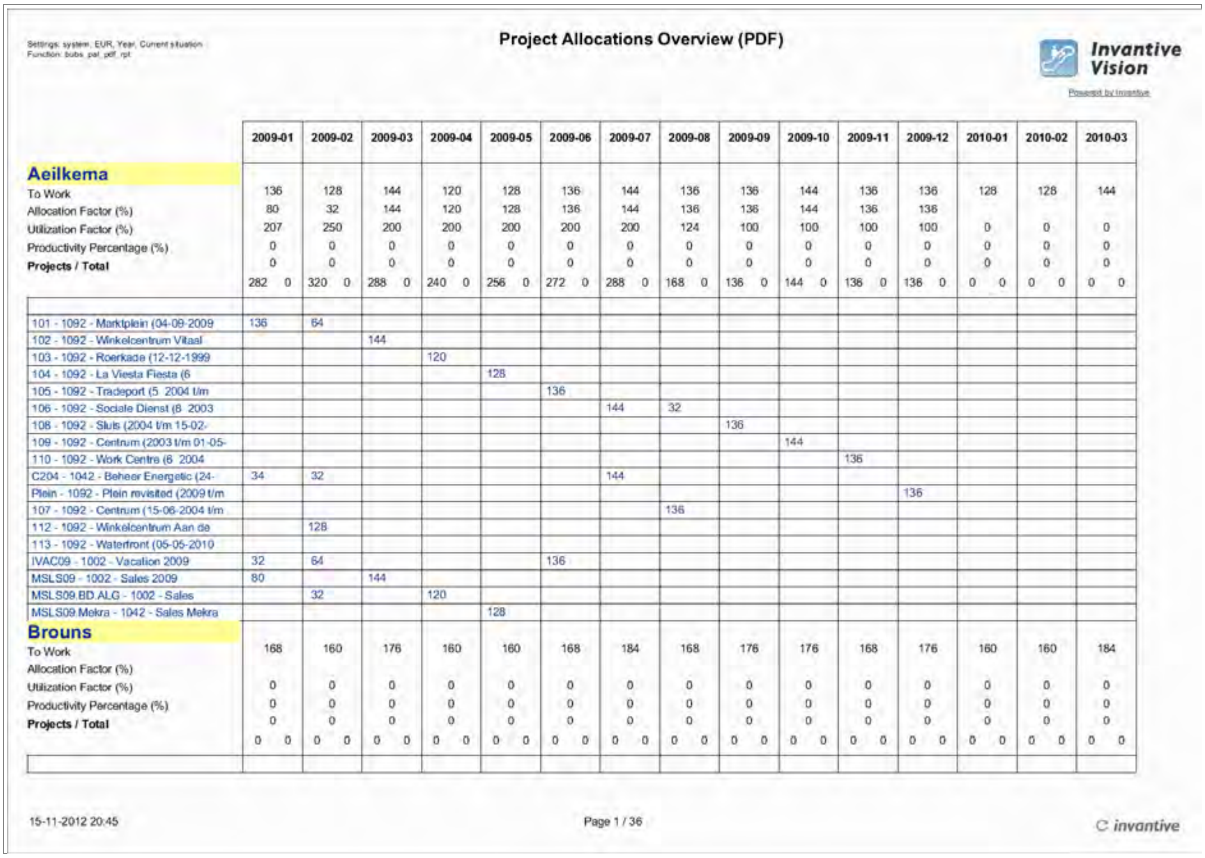
The meaning of the entry fields is:

Project	Reference to the project code and the project name as registered in Projects 124.
Name	Reference to the name of the person who is allocated to the project as registered in Persons 97.
Start	Scheduled start date of the allocation.
End	Planned end date of allocation (this date is to and not up to and including).
Next Review	Planned date on which the review of the project allocation should take place.
Working Schedule	Reference to a working schedule as registered in Working Schedules 175.
Labor Type	Reference to a labor type as registered in Labor Types 177.
Location	Location where the commitment to the project will take place.
Minimum number of working hours	Minimum commitment for the project in working hours.

Maximum number of working hours	Maximum commitment to the project in working hours.
Percentage Working schedule	The percentage of the overall work plan that will be allocated to the project.
Legally Binding	Indicator which shows whether the project allocation is legally binding.
Optional Prolongation	Indicator which shows whether the project allocation can be extended by the client and cannot be unilaterally ended by your company.
Extendable	Indicator which shows whether the project allocation can be extended by the client.
Explanation	Any explanation of the project allocation.

Project Allocations Overview

This report provides a detailed overview of the hours per month that employees are allocated to a project and the hours they actually have been working.



Settings: system, EUR, Year, Current situation
Function: bubs_pal_pdf_rpt

Project Allocations Overview (PDF)

	2009-01	2009-02	2009-03	2009-04	2009-05	2009-06	2009-07	2009-08	2009-09	2009-10	2009-11	2009-12	2010-01	2010-02	2010-03
Aeilkema															
To Work	136	128	144	120	128	136	144	136	136	144	136	136	128	128	144
Allocation Factor (%)	80	32	144	120	128	136	144	136	136	144	136	136			
Utilization Factor (%)	207	250	200	200	200	200	200	124	100	100	100	100	0	0	0
Productivity Percentage (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Projects / Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	282 0	320 0	288 0	240 0	256 0	272 0	288 0	168 0	136 0	144 0	136 0	136 0	0 0	0 0	0 0
101 - 1092 - Marktplein (04-09-2009	136	64													
102 - 1092 - Winkelcentrum Vitaal			144												
103 - 1092 - Roerkade (12-12-1999				120											
104 - 1092 - La Viesta Fiesta (6					128										
105 - 1092 - Tradeport (5 2004 t/m						136									
106 - 1092 - Sociale Dienst (8 2003							144	32							
108 - 1092 - Sluis (2004 t/m 15-02-									136						
109 - 1092 - Centrum (2003 t/m 01-05-										144					
110 - 1092 - Work Centre (6 2004											136				
C204 - 1042 - Beheer Energetic (24-	34	32					144								
Plein - 1092 - Plein revisited (2009 t/m												136			
107 - 1092 - Centrum (15-06-2004 t/m								136							
112 - 1092 - Winkelcentrum Aan de		128													
113 - 1092 - Waterfront (05-05-2010															
IVAC09 - 1002 - Vacation 2009	32	64				136									
MSLS09 - 1002 - Sales 2009	80		144												
MSLS09.BD.ALG - 1002 - Sales		32		120											
MSLS09.Mekra - 1042 - Sales Mekra					128										
Brouns															
To Work	168	160	176	160	160	168	184	168	176	176	168	176	160	160	184
Allocation Factor (%)															
Utilization Factor (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Productivity Percentage (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Projects / Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0

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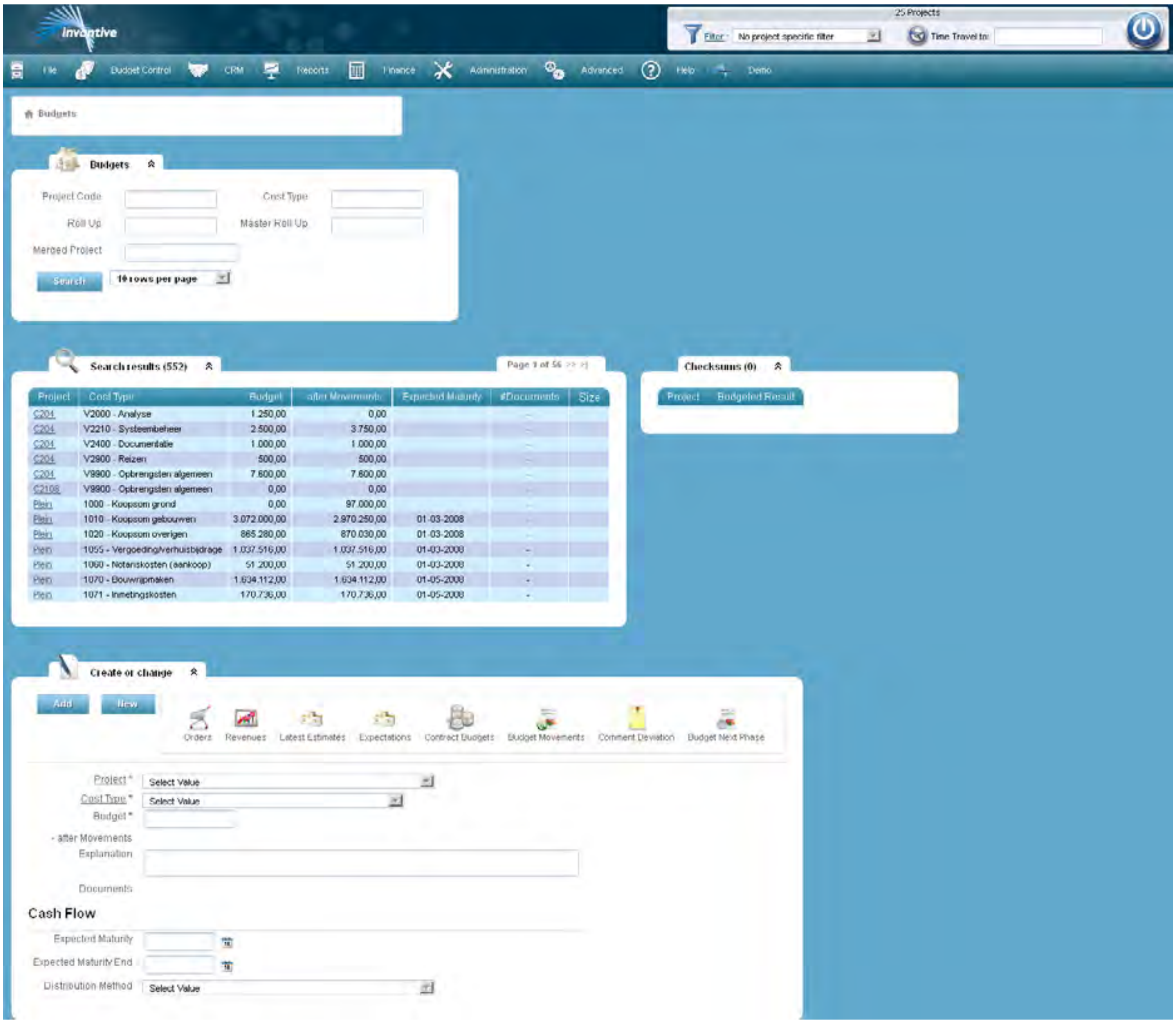
1.2.6.4 Budgets

In this form you can register and change budgets.

A budget is a financial availability available for executing certain activities, such as ‘demolition’. Budgets are allocated to revenues and costs of a project and are the individual activities which need to be particularised within the project. In this screen the first particularization is applied to cost category. Budgets are judged by the board based on an exposé and are registered per cost category by the financial administration. If desired you can split the budget within a cost category between different contracts (third party or actions), in order to get a better assessment of the available budget space, see Contract Budgets 73.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Budgets
Budgets
Project Code
Cost Type
Roll Up
Master Roll Up
Merged Project
Search
10 rows per page
Search results (552)
Page 1 of 56 >> >|
Checksums (0)
Project
Budgeted Result
Create or change
Add
New
Orders
Revenues
Latest Estimates
Expectations
Contract Budgets
Budget Movements
Comment Deviation
Budget Next Phase
Project *
Select Value
Cost Type *
Select Value
Budget *
- after Movements
Explanation
Documents
Cash Flow
Expected Maturity
Expected Maturity End
Distribution Method
Select Value

Project	Cost Type	Budget	after Movements	Expected Maturity	#Documents	Size
C204	V2000 - Analyse	1.250,00	0,00		-	
C204	V2210 - Systeembeheer	2.500,00	3.750,00		-	
C204	V2400 - Documentatie	1.000,00	1.000,00		-	
C204	V2900 - Reizen	500,00	500,00		-	
C204	V9900 - Opbrengsten algemeen	7.600,00	7.600,00		-	
C2108	V9900 - Opbrengsten algemeen	0,00	0,00		-	
Plein	1000 - Koopsom grond	0,00	97.000,00		-	
Plein	1010 - Koopsom gebouwen	3.072.000,00	2.970.250,00	01-03-2008	-	
Plein	1020 - Koopsom overigen	865.280,00	870.030,00	01-03-2008	-	
Plein	1055 - Vergoeding/verhuisbijdrage	1.037.516,00	1.037.516,00	01-03-2008	-	
Plein	1060 - Notariskosten (aankoop)	51.200,00	51.200,00	01-03-2008	-	
Plein	1070 - Bouwrijpmaken	1.634.112,00	1.634.112,00	01-05-2008	-	
Plein	1071 - Inmetingskosten	170.736,00	170.736,00	01-05-2008	-	

The meaning of the entry fields is:

Project	The project of which the budget is part of.
Cost Type	The cost category on which the budget is registered. Cost categories can only be chosen from a master roll up of the type 'Revenues' and 'Costs'.
Budget	The budgeted amount.
Explanation	A written explanation of the budget, used, for example, to shortly indicate the calculation.
Documents	Linked documents, see Linking Documents 29.
Expected Maturity	The expected date when the cash flow starts.
Expected Maturity End	The expected date when the cash flow ends.
Distribution Method	The way the cash is distributed in time.

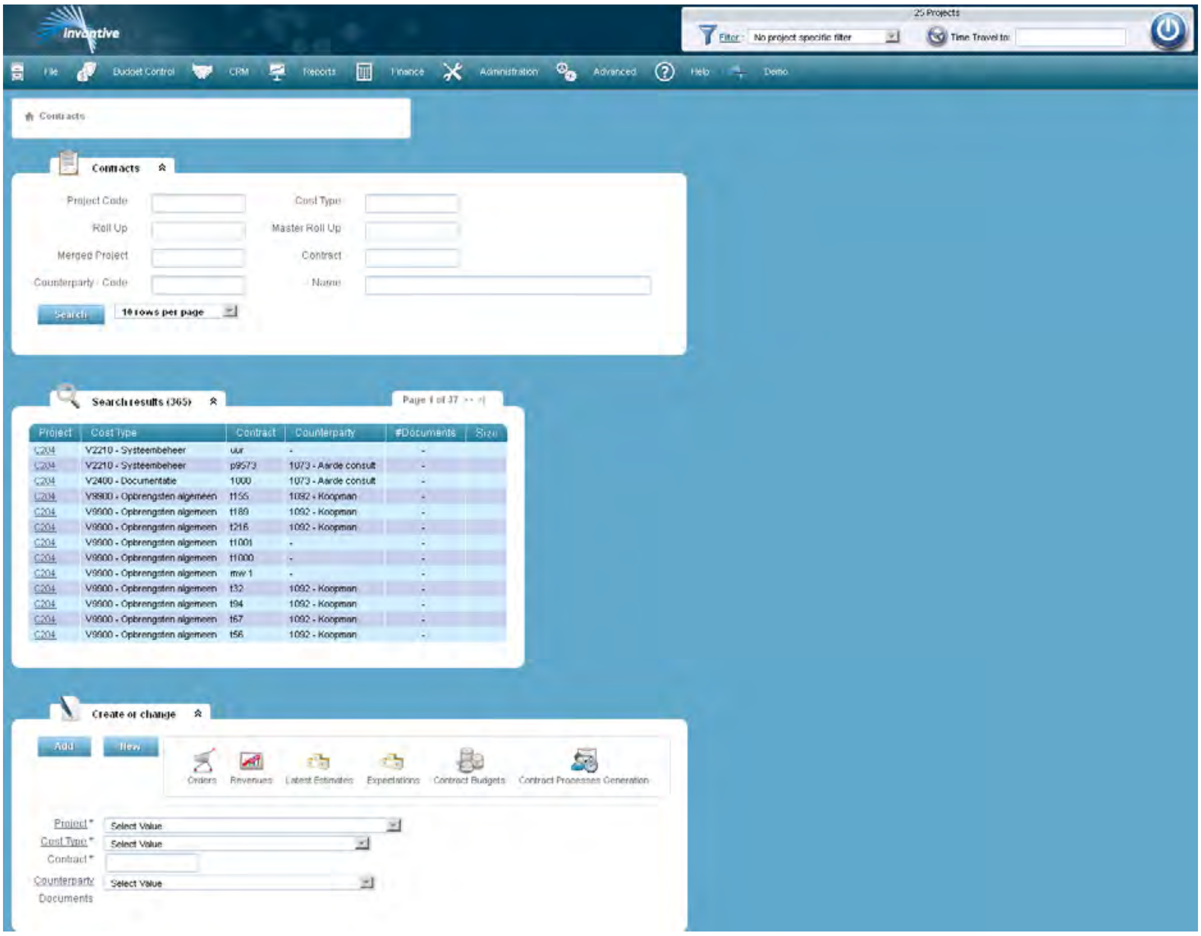
The meaning of the other fields:

Budget after Movements	The budget after the adjustments for budget movements.
Size	Size of the linked documents.
Budgeted Result	Margin of the project. It is calculated as the total of all revenue budgets minus the total of all costs budgets.

1.2.6.5 Contracts

In this screen you can register and change contracts.

A contract is a legally enforceable agreement between two or more parties with mutual obligations.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Contracts
Contracts
Project Code
Cost Type
Roll Up
Master Roll Up
Merged Project
Contract
Counterparty Code
Name
Search
10 rows per page
Search results (365)
Page 1 of 37
Create or change
Add
New
Orders
Revenues
Latest Estimates
Expectations
Contract Budgets
Contract Processes Generation
Project *
Cost Type *
Contract *
Counterparty
Documents
Select Value

Project	Cost Type	Contract	Counterparty	#Documents	Size
C204	V2210 - Systeembeheer	uur	-	-	
C204	V2210 - Systeembeheer	p9573	1073 - Aarde consult	-	
C204	V2400 - Documentatie	1000	1073 - Aarde consult	-	
C204	V9900 - Opbrengsten algemeen	t155	1092 - Koopman	-	
C204	V9900 - Opbrengsten algemeen	t189	1092 - Koopman	-	
C204	V9900 - Opbrengsten algemeen	t216	1092 - Koopman	-	
C204	V9900 - Opbrengsten algemeen	t1001	-	-	
C204	V9900 - Opbrengsten algemeen	t1000	-	-	
C204	V9900 - Opbrengsten algemeen	mw 1	-	-	
C204	V9900 - Opbrengsten algemeen	t32	1092 - Koopman	-	
C204	V9900 - Opbrengsten algemeen	t94	1092 - Koopman	-	
C204	V9900 - Opbrengsten algemeen	t67	1092 - Koopman	-	
C204	V9900 - Opbrengsten algemeen	t56	1092 - Koopman	-	

The meaning of the entry fields is:

Project	The project of which the contract is part of.
Cost Type	The cost category at which the contract is registered. Cost categories can only be chosen from a master roll up of the type 'Revenues' and 'Costs'.
Contract	The unique code of the contract.
Counterparty	The contract party with which the contract is closed.

The meaning of the other fields:

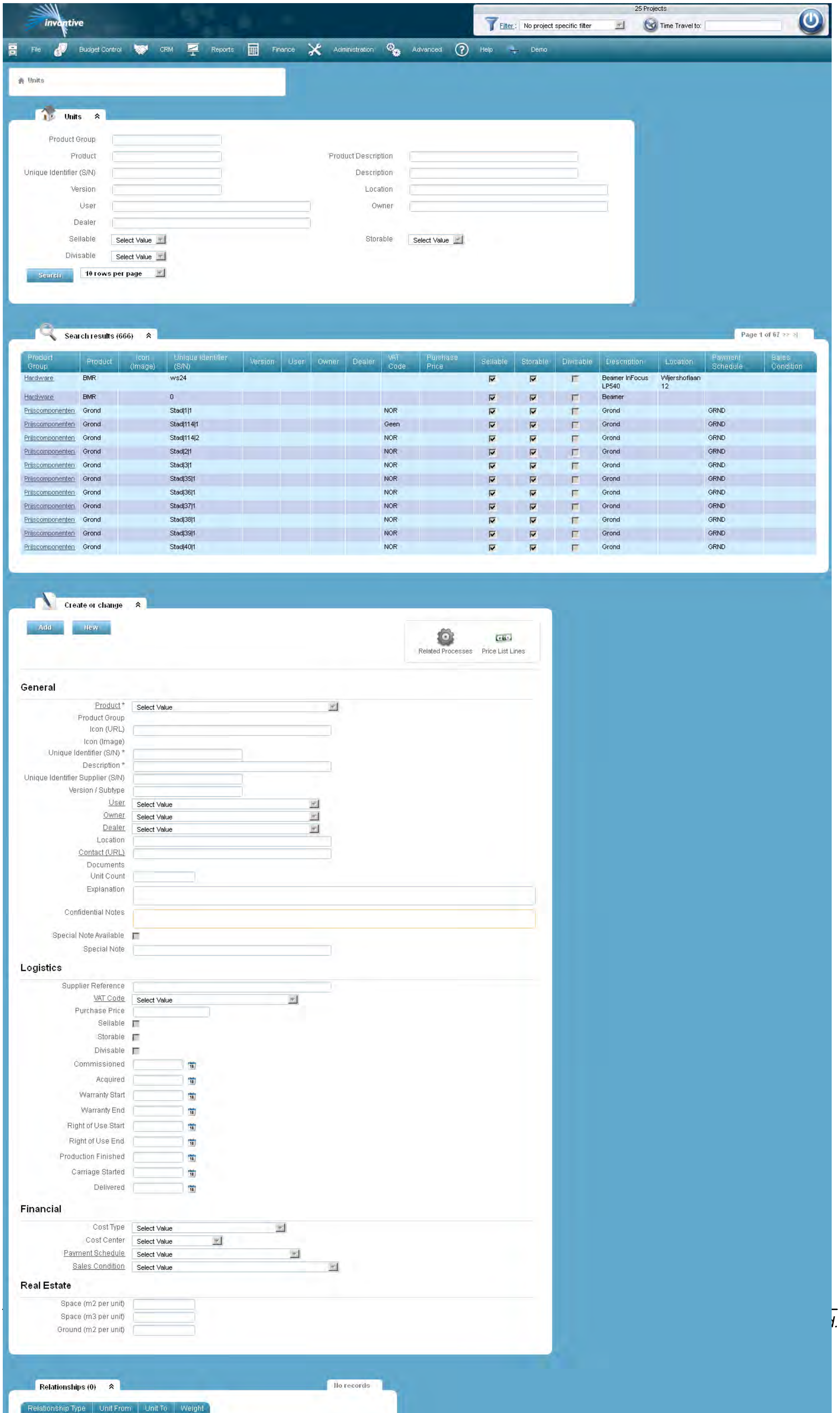
Documents	Linked documents, see Linking Documents 29.

1.2.6.6 Units

In this form you can register and change units.

A unit is an independent object of a certain product. For example, in real estate development this can be an office of the type 'Gull', while in the automation it can be a server with a serial number '123XBA' of the type 'Dell 2950'.

To each product belongs óne unit with the unique identifier '0'. This unit can be used for logistic functions if no unique identifier is known. This so-called '0-unit' is created by the system and will automatically be removed if the product is deleted.



Filter : No project specific filter

Units

Product Group

Product

Unique Identifier (S/N)

Version

User

Dealer

Sellable: Select Value

Divisable: Select Value

Product Description

Description

Location

Owner

Storable: Select Value

Search

10 rows per page

Search results (666)

Page 1 of 67 >> >|

Product Group	Product	Icon (Image)	Unique Identifier (S/N)	Version	User	Owner	Dealer	VAT Code	Purchase Price	Sellable	Storable	Divisable	Description	Location	Payment Schedule	Sales Condition
Hardware	BMR		ws24							☑	☑	☐	Beamer InFocus LP540	Wijershoflaan 12		
Hardware	BMR		0							☑	☑	☐	Beamer			
Prijscomponenten	Grond		Stad|1|1					NOR		☑	☑	☐	Grond		GRND	
Prijscomponenten	Grond		Stad|114|1					Geen		☑	☑	☐	Grond		GRND	
Prijscomponenten	Grond		Stad|114|2					NOR		☑	☑	☐	Grond		GRND	
Prijscomponenten	Grond		Stad|2|1					NOR		☑	☑	☐	Grond		GRND	
Prijscomponenten	Grond		Stad|3|1					NOR		☑	☑	☐	Grond		GRND	
Prijscomponenten	Grond		Stad|35|1					NOR		☑	☑	☐	Grond		GRND	
Prijscomponenten	Grond		Stad|36|1					NOR		☑	☑	☐	Grond		GRND	
Prijscomponenten	Grond		Stad|37|1					NOR		☑	☑	☐	Grond		GRND	
Prijscomponenten	Grond		Stad|38|1					NOR		☑	☑	☐	Grond		GRND	
Prijscomponenten	Grond		Stad|39|1					NOR		☑	☑	☐	Grond		GRND	
Prijscomponenten	Grond		Stad|40|1					NOR		☑	☑	☐	Grond		GRND	

Create or change

Add New

Related Processes Price List Lines

General

Product *: Select Value

Product Group

Icon (URL)

Icon (Image)

Unique Identifier (S/N) *

Description *

Unique Identifier Supplier (S/N)

Version / Subtype

User: Select Value

Owner: Select Value

Dealer: Select Value

Location

Contact (URL)

Documents

Unit Count

Explanation

Confidential Notes

Special Note Available ☐

Special Note

Logistics

Supplier Reference

VAT Code: Select Value

Purchase Price

Sellable ☐

Storable ☐

Divisable ☐

Commissioned

Acquired

Warranty Start

Warranty End

Right of Use Start

Right of Use End

Production Finished

Carriage Started

Delivered

Financial

Cost Type: Select Value

Cost Center: Select Value

Payment Schedule: Select Value

Sales Condition: Select Value

Real Estate

Space (m2 per unit)

Space (m3 per unit)

Ground (m2 per unit)

Relationships (0)

No records

Relationship Type	Unit From	Unit To	Weight

The meaning of the entry fields is:

General	
Product	Product, see Products 208.
Unique Identifier (SN)	Unique address, location or serial number of the product.
Description	The description of the unit.
Unique Identifier Supplier (SN)	The unique address, location or serial number of the unit als known by the supplier.
Version/Subtype	Revision of the unit.
User	Reference to the organization for which the unit is used, as recorded in Organizations 93.
Owner	Reference to the owner of the unit, as recorded in Organizations 93.
Dealer	Reference to the dealer of the unit, as recorded in Organizations 93. The dealer is the first contact person for the organization that uses the unit.
Location	Geographic location of the unit.
Contact (URL)	Information on how you can contact the unit. For example, this could be a webpage or a telephone number.
Icon (URL)	Internet address of an image of the unit.
Documents	Linked documents, see Linking Documents 29.
Units (Quantity)	Total number of units.
Explanation	Possible explanation.
Confidential Notes	Confidential information about this unit, for example, such as passwords.
Special Note Available	Indicator which shows whether the unit has a valid special note. For example, this could be a determination of theft.
Special Note	Special note concerning the unit. An example could be that this is stolen. For example, the note can be shown during data entry to make it easier to detect stolen goods.
Logistics	
Redemption Price	Purchase price of the unit.
Sellable	When checked, it is possible to sell.
Storeable	When checked, it is possible to keep in stock.
Splitable	When checked, it is possible to divide into separate parts.
Commissioned	Date on which the unit is put into operation.
Acquired	Date at which the unit is obtained.
Warranty Start	Date at which the warranty of the unit starts.
Warranty End	Date at which the warranty of the unit ends.
Right of Use Start	Date at which the user right of the unit starts.
Right of Use End	Date at which the user right of the unit ends.
Real Estate	
Space (m2 per unit)	Size of the unit in square meters.
Space (m3 per unit)	Size of the unit in cubic meters.
Ground (m2 per unit)	Size of the ground belonging to the unit.
Relationships	
Relationship Type	Reference to a unit relation type as registered in Unit Relation Type 211.
Unit To	Reference to a unit registered in this screen and positioned at the end of the relationship.
Weight	The importance of a relationship.
Explanation	Possible explanation.
Properties	
Property	Reference to a propert as registered in Properties 210.
Property value	Value of the property.
Established	Date at which the property was established.
Reading method	The way in which the property can be read as registered in Property Determiniation Methods 211.
Explanation	Possible explanation.

The meaning of the other fields:

Product group	Reference to a product group as registered in Product Groups 207.
Icon (Image)	Image of the unit.

1.2.7 Administration

This section contains information about the functions necessary for the application management of Invantive Estate. These functions are normally used by the person appointed within the organization to ensure that the provided functionality is set up in such a way that it fits best the requirements and the needs of the user (‘application manager’).

1.2.7.1 Authentication and Authorisation

This chapter contains information about the functions that are used to establish the access rights of users. These functions are normally used by the person appointed within the organization to ensure that the provided functionality is set up in such a way that it fits best the requirements and the needs of the user.

Invantive Estate is an application that stores information that may not be publicly accessible. For this reason a user first has to log in via the screen Start up and Login 7 to get access. The check that a user is who he claims to be is called ‘authentication’.

Authentication

Authentication consists of validating the identity of the user of the application. A familiar example is making a withdrawal at an ATM. which requires a piece of knowledge (PIN-code) and a piece of possession (bank card). Another example is entering your own house. which requires solely a piece of possession (the key to the house). Invantive Estate belongs to the category of applications that (by default) solely uses knowledge to identify the user. The user gets access to the application with a password.

The authentication data of a user can be stored via the screen Persons 97.

Authentication by LDAP or Microsoft Active Directory

You can perform authentication through an LDAP directory or Microsoft Active Directory. In order to do this, you need to upload the following settings in the file site.properties, see Site.properties 553.

Authorisation for projects

The application contains a structure to grant certain groups of users access to only certain projects.

A project within Invantive Estate consists of an extensive amount of data, like budgets, processes, adjustments, invoices, orders and revenues. Access to all data related to a project is secured. To give a user access to the data of a given project, explicit rights should be granted to the user (the so-called UBAC, User Based Access). This can be done with the screen Project Authorisations 157. The rights can be read-only or write/read. Moreover, you can grant certain users read and/or write access to all projects. This will usually be the case for the application administrator. Also the person who uploads new projects will get complete access to all projects, in order to prevent the creation of a chicken egg problem (you can only grant rights to a project if it exists).

If a user has no rights to add, change or delete data in a screen, the buttons ‘Add’, ‘Change’ and ‘Delete’ will not appear in that screen when the user opens it.

The rights of a user on projects can be registered with the screens Settings 336, Roles 158, User Roles 158 and Project Authorisations 157.

Authorization for screens, reports and documents

The application contains a structure to grant certain groups of people access to only certain parts of the application. This is called the authorisation structure. Most privileges are granted based upon the role of a user (so-called RBAC, Role Based Access). A user can have multiple roles at the same time. In that case the total rights of the user are the sum of the rights attached to the roles given to the user.

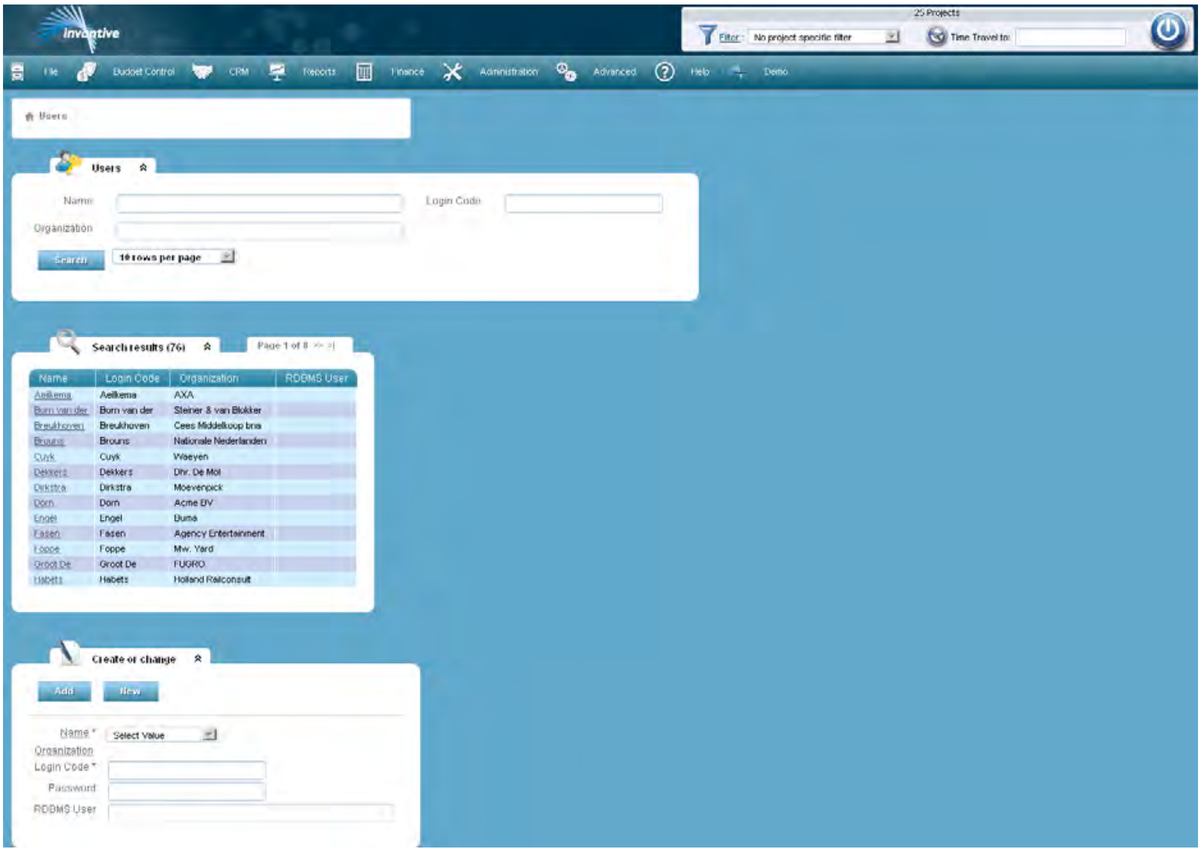
The rights of a user on screens, reports and documents can be registered with the screens Roles 158, Role Authorisations 159 and User Roles 158.

For example, if you would like to see the contents of documents in the screen Budgets 149, the function ‘Access to documents of Budget’ in Role Authorisations 159 should be assigned to you.

If you want to change a document and then upload it, also editing rights need to be assigned to you in the screen Role Authorisations 159.

Users

In this form you can register and change users.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Users
Users
Name
Login Code
Organization
Search
10 rows per page
Search results (76)
Page 1 of 8
Create or change
Add
New

Name	Login Code	Organization	RDBMS User
Aeilkema	Aeilkema	AXA	
Born van der	Born van der	Steiner & van Blokker	
Breukhoven	Breukhoven	Cees Middelkoop bna	
Brouns	Brouns	Nationale Nederlanden	
Cuyk	Cuyk	Waeyen	
Dekkers	Dekkers	Dhr. De Mol	
Dirkstra	Dirkstra	Moevenpick	
Dorn	Dorn	Acme BV	
Engel	Engel	Buma	
Fasen	Fasen	Agency Entertainment	
Foppe	Foppe	Mw. Yard	
Groot De	Groot De	FUGRO	
Habets	Habets	Holland Railconsult	

Name * Select Value
Organization
Login Code *
Password
RDBMS User

The meaning of the entry fields is:

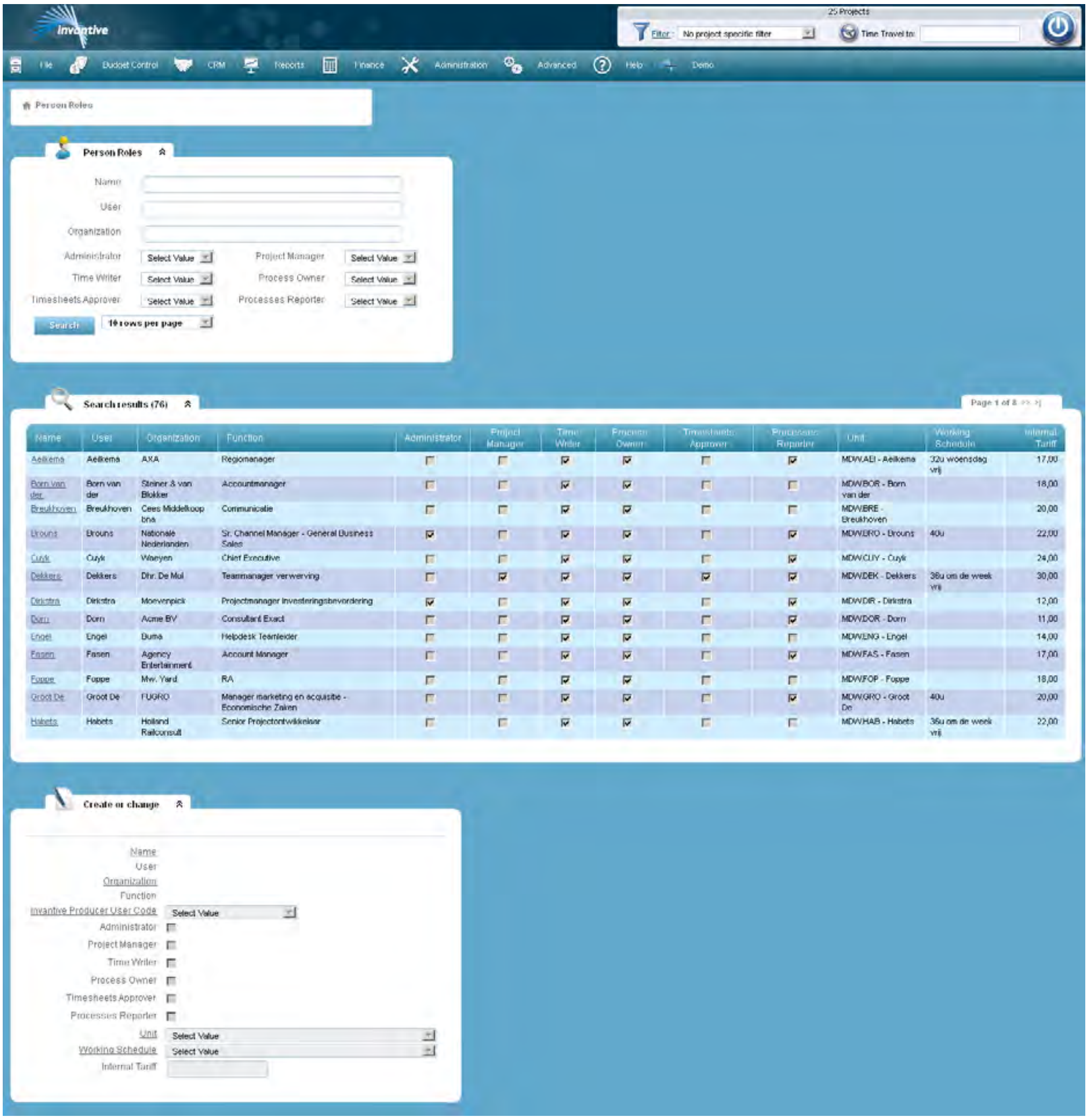
Name	The name of the user.
Login	Logon Code.
Password	Password associated with the logon code.
RDBMS User	The RDBMS user that is linked to the Invantive Estate user. The RDBMS user is used to automatically log on to reporting software.

The meaning of the other fields:

Organization	Reference to the organization for which the user is working, as recorded in Organizations 93.

Person Roles

In this screenyou can register and change person roles.



invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Person Roles
Person Roles
Name
User
Organization
Administrator
Select Value
Project Manager
Select Value
Time Writer
Select Value
Process Owner
Select Value
Timesheets Approver
Select Value
Processes Reporter
Select Value
Search
10 rows per page
Search results (76)
Page 1 of 8
Create or change
Name
User
Organization
Function
Invantive Producer User Code
Select Value
Administrator
Project Manager
Time Writer
Process Owner
Timesheets Approver
Processes Reporter
Unit
Select Value
Working Schedule
Select Value
Internal Tariff

Name	User	Organization	Function	Administrator	Project Manager	Time Writer	Process Owner	Timesheets Approver	Processes Reporter	Unit	Working Schedule	Internal Tariff
Aeilkema	Aeilkema	AXA	Regionanager	☐	☐	☑	☑	☐	☑	MDW.AEI - Aeilkema	32u woensdag vrij	17,00
Born van der	Born van der	Steiner & van Blokker	Accountmanager	☐	☐	☑	☑	☐	☐	MDW.BOR - Born van der		18,00
Breukhoven	Breukhoven	Cees Middelkoop bna	Communicatie	☐	☐	☑	☑	☐	☐	MDW.BRE - Breukhoven		20,00
Brouns	Brouns	Nationale Nederlanden	Sr. Channel Manager - General Business Sales	☑	☐	☑	☑	☐	☑	MDW.BRO - Brouns	40u	22,00
Cuyk	Cuyk	Waeyen	Chief Executive	☐	☐	☑	☑	☐	☑	MDW.CUY - Cuyk		24,00
Dekkers	Dekkers	Dhr. De Mul	Teammanager verwerving	☐	☑	☑	☑	☑	☑	MDW.DEK - Dekkers	36u om de week vrij	30,00
Dirkstra	Dirkstra	Moevenpick	Projectmanager Investeringsbevordering	☑	☐	☑	☑	☐	☑	MDW.DIR - Dirkstra		12,00
Dorn	Dorn	Acme BV	Consultant Exact	☐	☐	☑	☑	☐	☑	MDW.DOR - Dorn		11,00
Engel	Engel	Duma	Helpdesk Teamleider	☐	☐	☑	☑	☐	☐	MDW.ENG - Engel		14,00
Fasen	Fasen	Agency Entertainment	Account Manager	☐	☐	☑	☑	☐	☑	MDW.FAS - Fasen		17,00
Foppe	Foppe	Mw. Yard	RA	☐	☐	☑	☑	☐	☐	MDW.FOP - Foppe		18,00
Groot De	Groot De	FUGRO	Manager marketing en acquisitie - Economische Zaken	☐	☐	☑	☑	☐	☑	MDW.GRO - Groot De	40u	20,00
Habets	Habets	Holland Railconsult	Senior Projectontwikkelaar	☐	☐	☑	☑	☐	☐	MDW.HAB - Habets	36u om de week vrij	22,00

The meaning of the entry fields is:

User Invantive Producer	The name of the user in Invantive Producer 272 under which this person works. This should only be entered if a person has access to the screens of Invantive Producer 272 in the menu Application Development 272.

Administrator	If this box is checked, the user is shown in the list of administrators in the screen where projects are uploaded (see General Project Data 124).
Project developer	If this box is checked, the user will be able to edit the data of the project , such as orders.
Time Writer	If this box is checked, the user is shown in the list of persons that are allowed to write hours in the screen (see Time Records) 143.
Process Holder	If this box is checked, the user is shown in the list of process holders in the screen where you can register processes (see Processes) 53.
Signs Timesheets	If this box is checked, the user is shown in the list of timesheet signers in the project screen (see Projects 124).
Process Detector	If this box is checked, the user is shown in the list of process reporters in the screen where you can register processes (see Processes) 53.
Unit	Reference to a Unit as registered in Units 151.
Working Schedule	Reference to the application working schedule as registered in Working Schedules 175.
Internal Rate	Reference to the internal tariff of the person as registered in Persons 97.

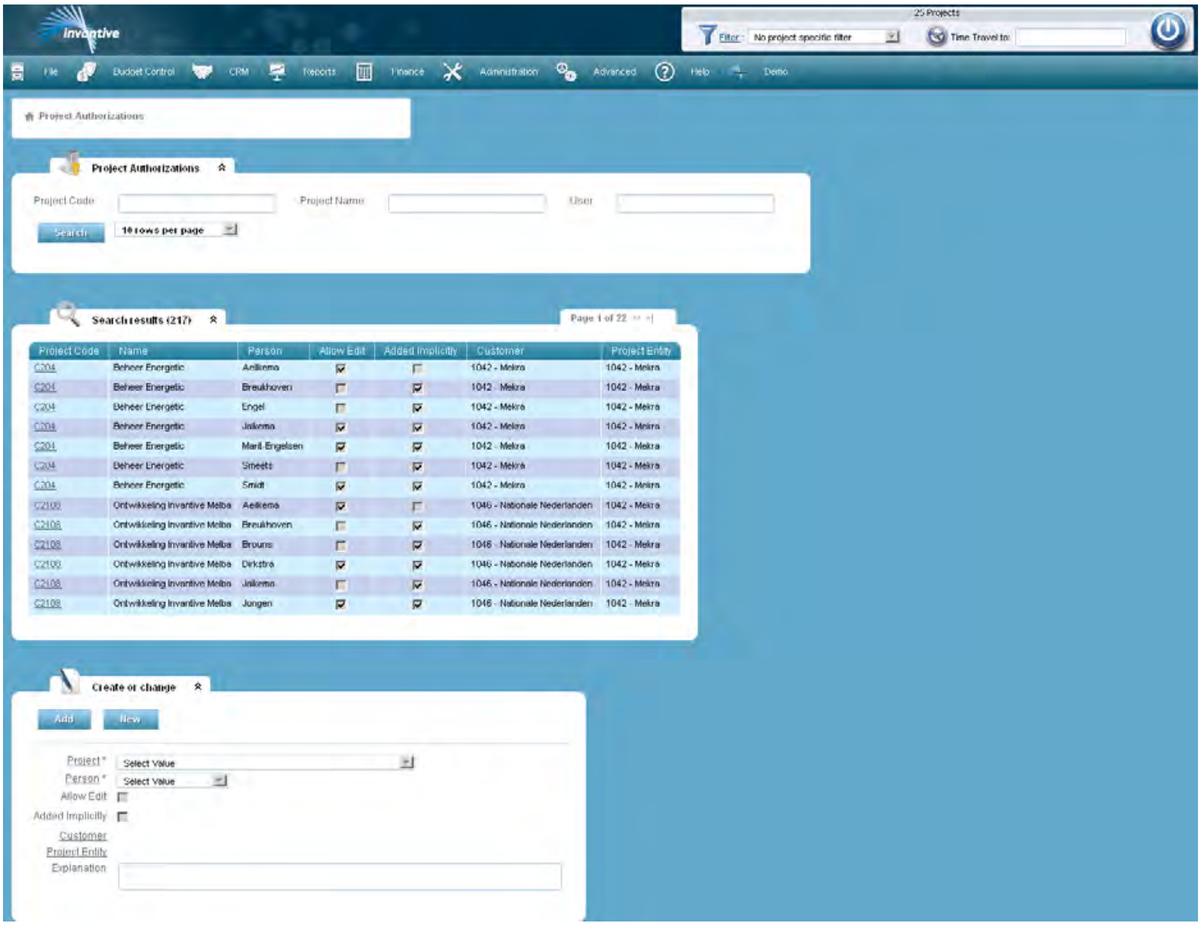
The meaning of the other fields:

Name	Name of the user as registered in Persons 97.
Organization	Name of the organization that represents the user as registered in Organizations 93.

Project Authorisations

In this form you can register and change project authorisations.

A project authorization is a link between a person and a project. A person with this project authorization will have access to the data of the project. The person may also modify data if editing rights are granted.


Invantive
25 Projects
Filter : No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Project Authorizations
Project Authorizations
Project Code
Project Name
User
Search
10 rows per page
Search results (217)
Page 1 of 22
Create or change
Add
New

Project Code	Name	Person	Allow Edit	Added Implicitly	Customer	Project Entity
C204	Beheer Energetic	Aelkema	☑	☐	1042 - Mekra	1042 - Mekra
C204	Beheer Energetic	Breukhoven	☐	☑	1042 - Mekra	1042 - Mekra
C204	Beheer Energetic	Engel	☐	☑	1042 - Mekra	1042 - Mekra
C204	Beheer Energetic	Jalkema	☑	☑	1042 - Mekra	1042 - Mekra
C204	Beheer Energetic	Mard-Engelsen	☑	☑	1042 - Mekra	1042 - Mekra
C204	Beheer Energetic	Smeets	☐	☑	1042 - Mekra	1042 - Mekra
C204	Beheer Energetic	Smidt	☑	☑	1042 - Mekra	1042 - Mekra
C2108	Ontwikkeling Invantive Melba	Aelkema	☑	☐	1046 - Nationale Nederlanden	1042 - Mekra
C2108	Ontwikkeling Invantive Melba	Breukhoven	☐	☑	1046 - Nationale Nederlanden	1042 - Mekra
C2108	Ontwikkeling Invantive Melba	Brouns	☐	☑	1046 - Nationale Nederlanden	1042 - Mekra
C2108	Ontwikkeling Invantive Melba	Dirkstra	☑	☑	1046 - Nationale Nederlanden	1042 - Mekra
C2108	Ontwikkeling Invantive Melba	Jalkema	☐	☑	1046 - Nationale Nederlanden	1042 - Mekra
C2108	Ontwikkeling Invantive Melba	Jongen	☑	☑	1046 - Nationale Nederlanden	1042 - Mekra

Project * Select Value
Person * Select Value
Allow Edit ☐
Added Implicitly ☐
Customer
Project Entity
Explanation

The meaning of the entry fields is:

Project	The project to w hich rights are granted.
User	Reference to a user as registered inPersons 97.
Allow Edit	If this box is checked, the user w ill be able to edit the data of the project, such as orders.
Added Implicitly	Indicator that indicates project authorization implicitly got assigned by changing persons w ho are assigned to the project as checked.
Explanation	Possible explanation.

The meaning of the other fields:

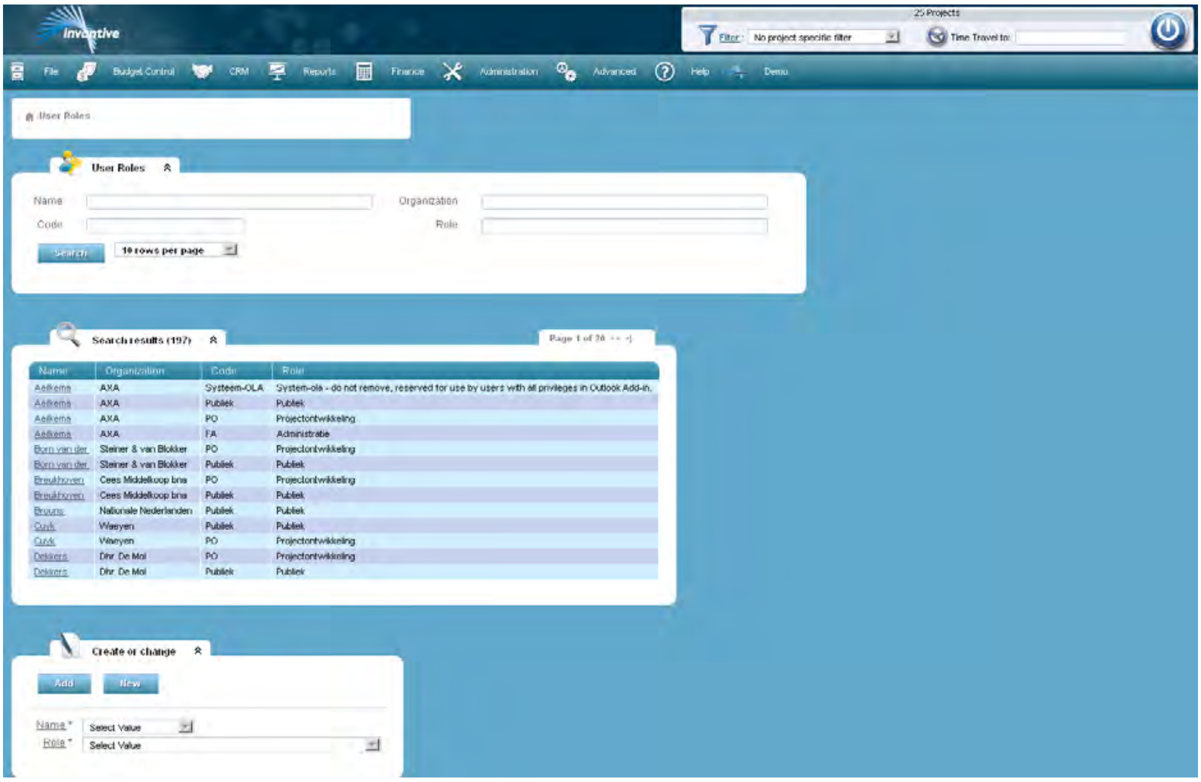
Customer	Reference to a customer as registered in Organizations 93.
Project entity	Reference to a project entity as registered in Organizations 93.

User Roles

In this form you can register and change the user roles.

A user with a role, subsequently has all rights that belong to the role as defined in the screen Role Authorizations 159 and Roles 158. The user roles also define which Menu Items 225 a user could see.

When implementing Invantive Estate you can directly use the example roles included in Invantive Estate. However, it is preferred to copy these roles. Example roles can be identified by the prefix ‘Example’ in the role code.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
User Roles
User Roles
Name
Organization
Code
Role
Search
10 rows per page
Search results (197)
Page 1 of 20
Create or change
Add
New

Name	Organization	Code	Role
Aeikema	AXA	Systeem-OLA	System-ola - do not remove, reserved for use by users with all privileges in Outlook Add-in.
Aeikema	AXA	Publiek	Publiek
Aeikema	AXA	PO	Projectontwikkeling
Aeikema	AXA	FA	Administratie
Born van der	Steiner & van Blokker	PO	Projectontwikkeling
Born van der	Steiner & van Blokker	Publiek	Publiek
Breukhoven	Cees Middelkoop bna	PO	Projectontwikkeling
Breukhoven	Cees Middelkoop bna	Publiek	Publiek
Bruuns	Nationale Nederlanden	Publiek	Publiek
Cuyk	Waeyen	Publiek	Publiek
Cuyk	Waeyen	PO	Projectontwikkeling
Dekkers	Dhr. De Mol	PO	Projectontwikkeling
Dekkers	Dhr. De Mol	Publiek	Publiek

Name * Select Value
Role * Select Value

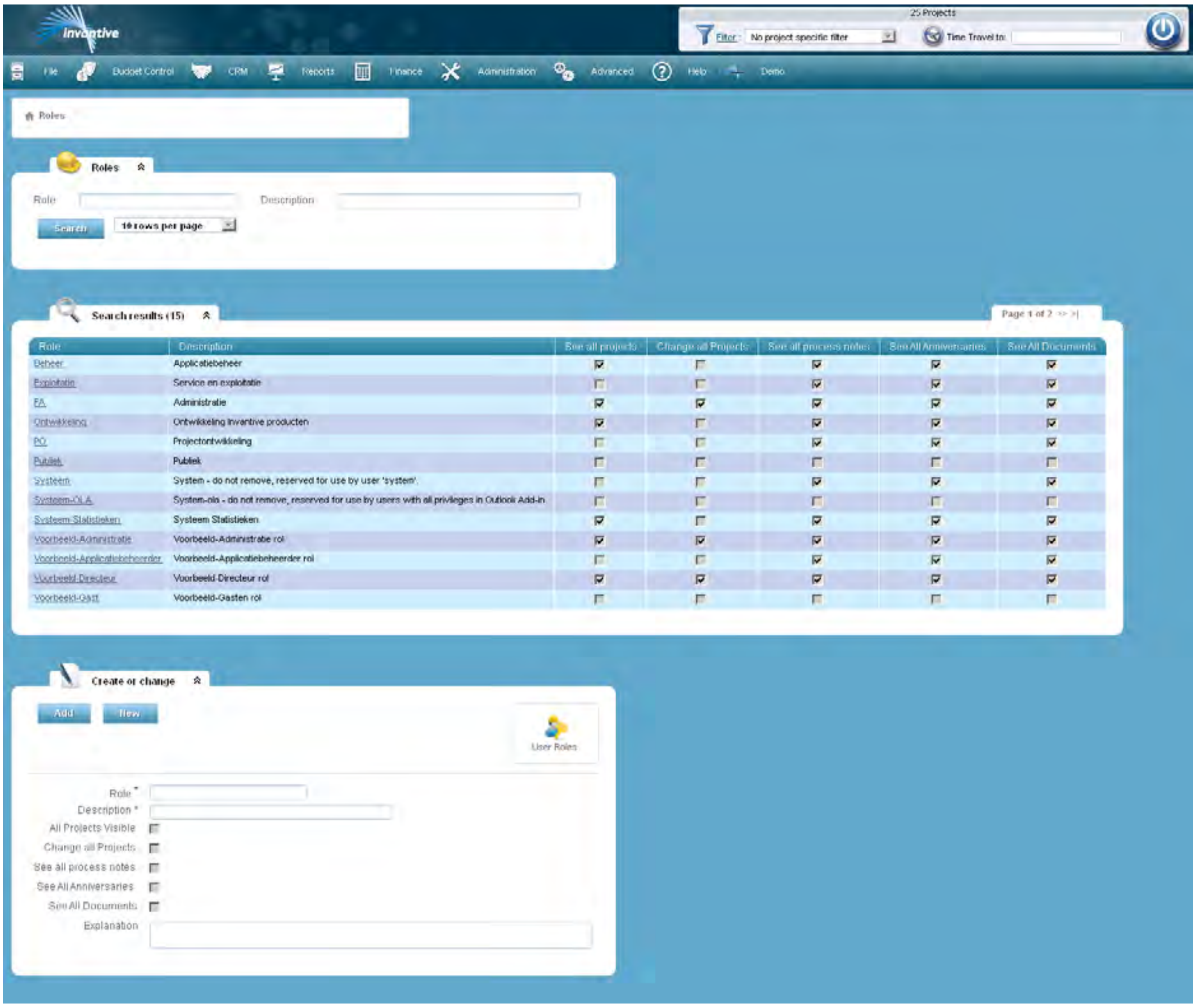
The meaning of the entry fields is:

Name	The name of the user.
Role	The role assigned.

Roles

In this form you can register and change roles.

A role is a function within an organization (for example ‘Project Developer’) that can be performed by a person. Rights can be assigned to this role with Role Authorizations 159 and subsequently this role can be assigned to users that are going to perform the function with User Roles 158.


25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Roles
Roles
Role
Description
Search
10 rows per page
Search results (15)
Page 1 of 2 >> >|
Create or change
Add
New
User Roles

Role	Description	See all projects	Change all Projects	See all process notes	See All Anniversaries	See All Documents
Beheer	Applicatiebeheer	☑	☐	☑	☑	☑
Exploitatie	Service en exploitatie	☐	☐	☑	☑	☑
FA	Administratie	☑	☑	☑	☑	☑
Ontwikkeling	Ontwikkeling Invantive producten	☑	☐	☑	☑	☑
PO	Projectontwikkeling	☐	☐	☑	☑	☑
Publiek	Publiek	☐	☐	☐	☐	☐
Systeem	System - do not remove, reserved for use by user 'system'.	☐	☐	☑	☑	☑
Systeem-OLA	System-ola - do not remove, reserved for use by users with all privileges in Outlook Add-in	☐	☐	☐	☐	☐
Systeem-Statistieken	Systeem Statistieken	☑	☐	☑	☑	☑
Voorbeeld-Administratie	Voorbeeld-Administratie rol	☑	☑	☑	☑	☑
Voorbeeld-Applicatiebeheerder	Voorbeeld-Applicatiebeheerder rol	☐	☐	☑	☑	☑
Voorbeeld-Directeur	Voorbeeld-Directeur rol	☑	☑	☑	☑	☑
Voorbeeld-Gast	Voorbeeld-Gasten rol	☐	☐	☐	☐	☐

Role *
Description *
All Projects Visible ☐
Change all Projects ☐
See all process notes ☐
See All Anniversaries ☐
See All Documents ☐
Explanation

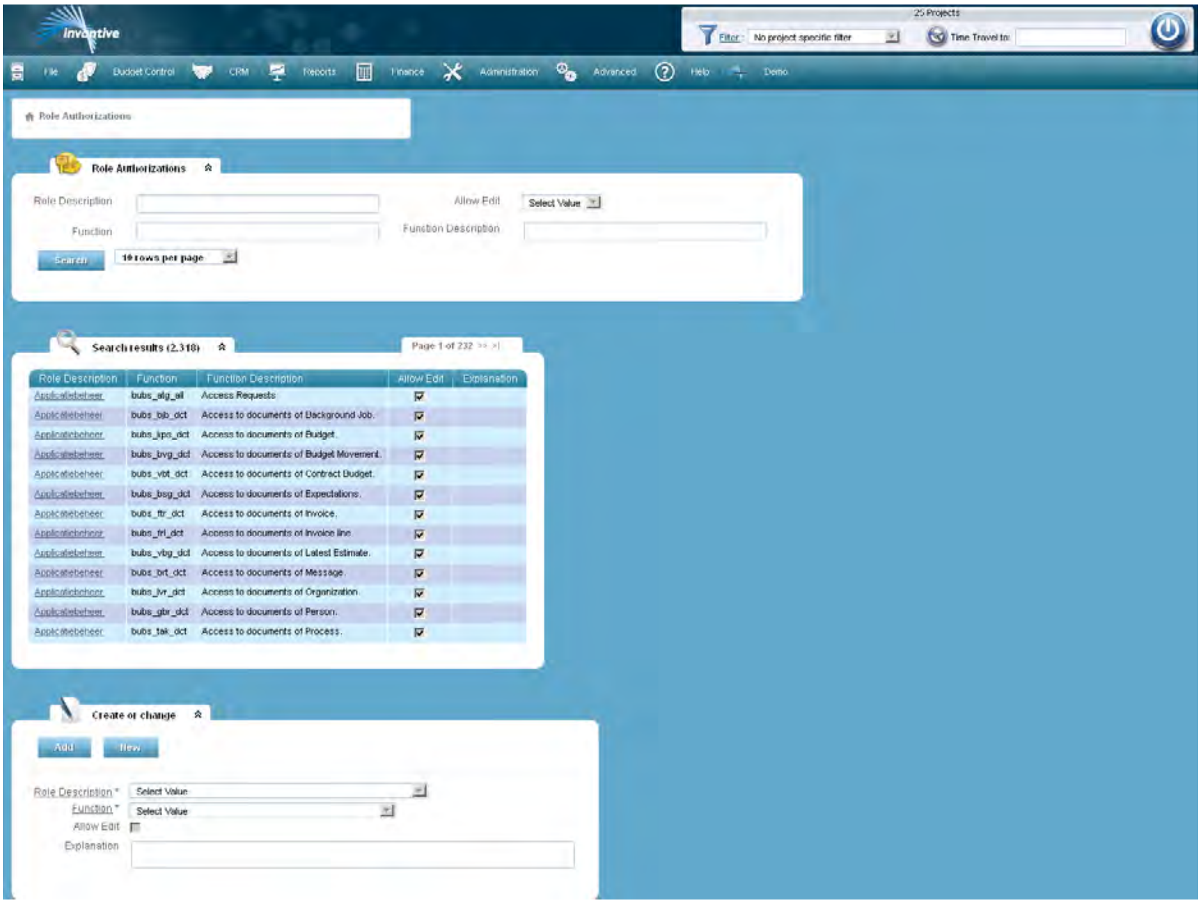
The meaning of the entry fields is:

Role	The code of the role.
Description	The description.
All Projects Visible	When this field is checked, then every user with this role will be able to see all projects.
Change all Projects	If this box is checked, then every user with this role can edit all projects.
see all process notes	If this box is checked, then every user with this role can see all process notes.
See All Anniversaries	If this box is checked, then every user with this role can see all birthdays.
See All Documents	If this box is checked, then every user with this role can see all documents.
Explanation	Possible Explanation.

Role Authorisations

In this screen you can register and change role authorizations.

A role authorisation is a link between a role and a screen or report. A user with this role subsequently has access to the form or report. Moreover, the user can change the data if editing rights have been granted.



Role Authorizations

Role Authorizations

Role Description
Function
Allow Edit: Select Value
Function Description
Search
10 rows per page

Search results (2.318)

Page 1 of 232 >> >|

Role Description	Function	Function Description	Allow Edit	Explanation
Applicatiebeheer	bubs_alg_all	Access Requests	☑	
Applicatiebeheer	bubs_bjb_dct	Access to documents of Background Job.	☑	
Applicatiebeheer	bubs_kps_dct	Access to documents of Budget.	☑	
Applicatiebeheer	bubs_bvg_dct	Access to documents of Budget Movement.	☑	
Applicatiebeheer	bubs_vbt_dct	Access to documents of Contract Budget.	☑	
Applicatiebeheer	bubs_bsg_dct	Access to documents of Expectations.	☑	
Applicatiebeheer	bubs_ftr_dct	Access to documents of Invoice.	☑	
Applicatiebeheer	bubs_frl_dct	Access to documents of Invoice line.	☑	
Applicatiebeheer	bubs_vbg_dct	Access to documents of Latest Estimate.	☑	
Applicatiebeheer	bubs_brt_dct	Access to documents of Message.	☑	
Applicatiebeheer	bubs_lvr_dct	Access to documents of Organization.	☑	
Applicatiebeheer	bubs_gbr_dct	Access to documents of Person.	☑	
Applicatiebeheer	bubs_tak_dct	Access to documents of Process.	☑	

Create or change

Add New

Role Description *: Select Value
Function *: Select Value
Allow Edit: ☐
Explanation

The meaning of the entry fields is:

Role Description	The role.
Function	The function (form or report).
Allow Edit	If this box is checked, then every user with this role can change information in this function. If it concerns project related data, such as orders, the user will also need editing rights for the project.

1.2.7.2 Project Structure

This chapter contains information about the functions needed to configure the project structure.

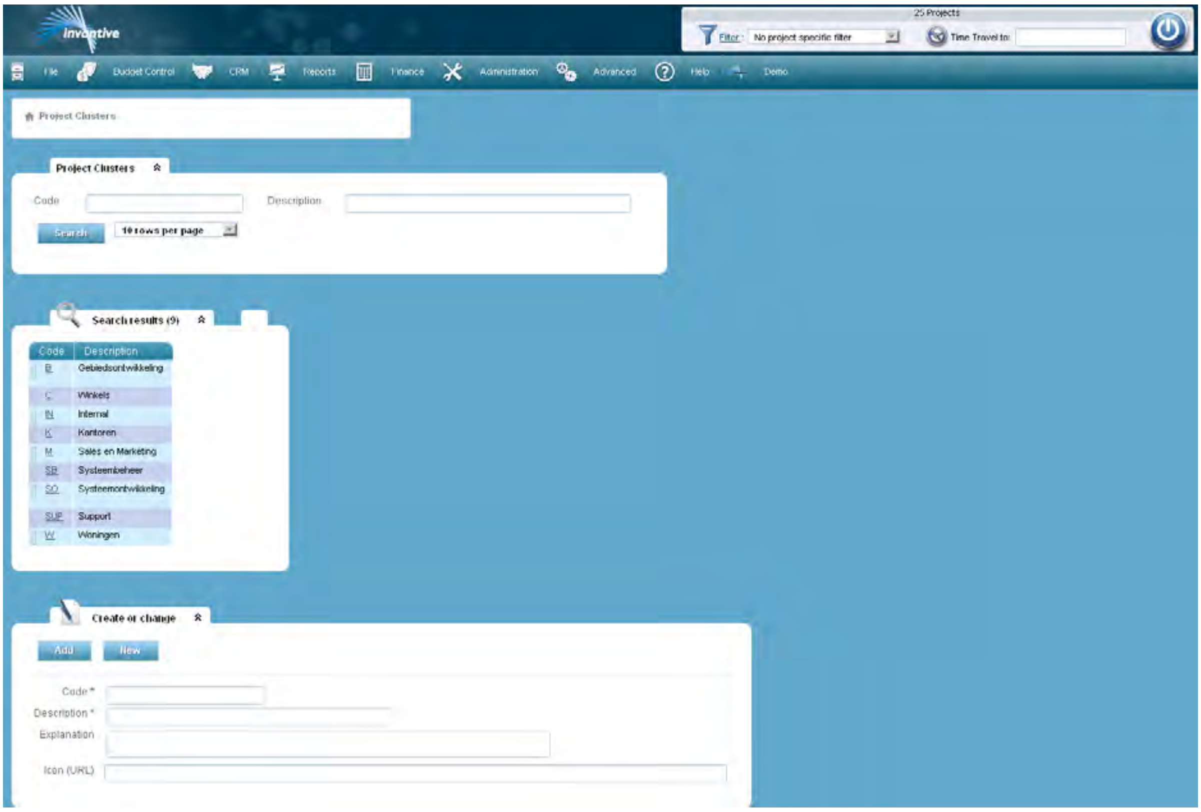
Projects

Enter text here.

Product clusters

In this form you can register and change product clusters.

A product cluster consists of a part of the organizational activity that executes projects inside a certain area of attention, like offices, houses or stores.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Project Clusters
Project Clusters
Code
Description
Search
10 rows per page
Search results (9)
Create or change
Add
New
Code *
Description *
Explanation
Icon (URL)

Code	Description
B	Gebiedsontwikkeling
C	Winkels
IN	Internal
K	Kantoren
M	Sales en Marketing
SB	Systeembeheer
SO	Systeemontwikkeling
SUP	Support
W	Woningen

The meaning of the entry fields is:

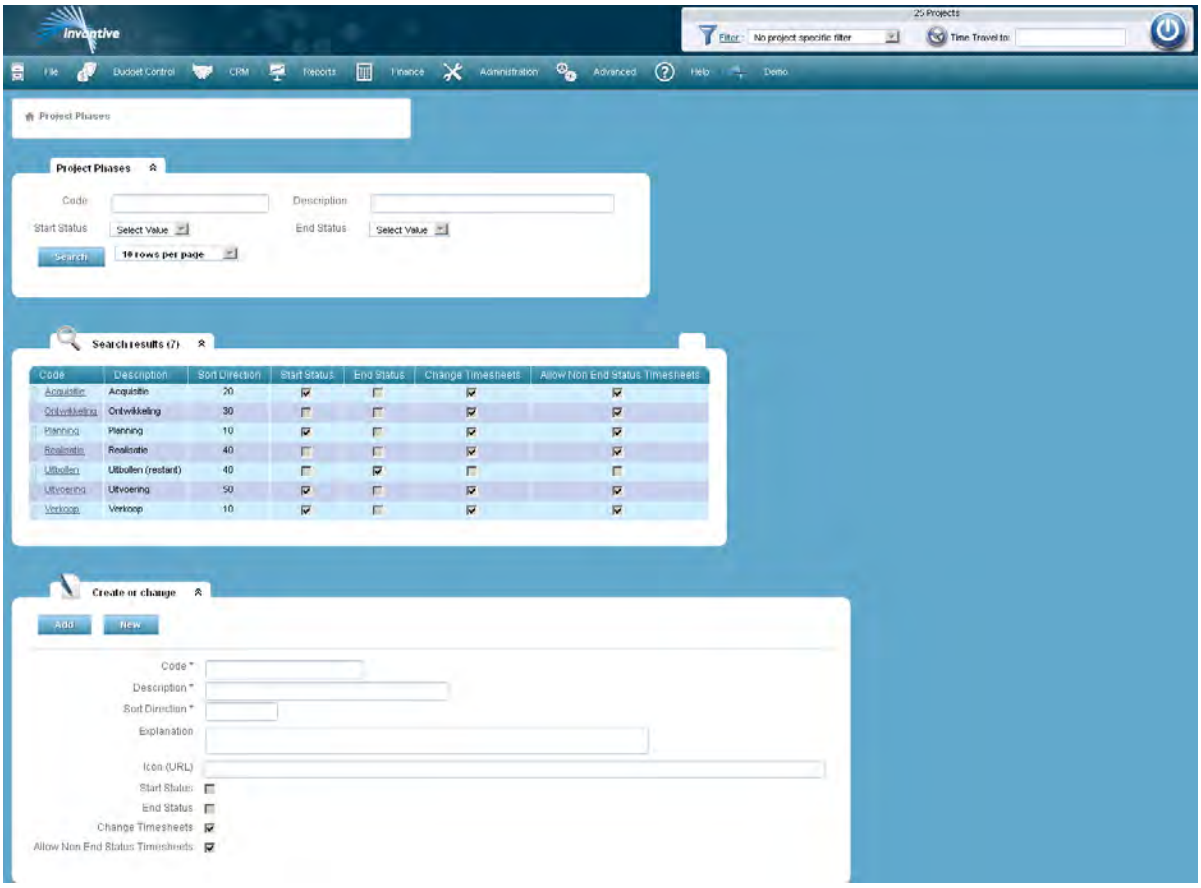
Code	The unique code of the product cluster.
Description	Description of a product cluster.
Explanation	Possible explanation.

Notice that a product clust can have different directors regarding responsibility on product cluster level. The responsible product cluster director is therefore assigned per project 124.

Project Phases

In this screen you can register and change project phases.

Projects can be divided into their current project phase. Typical project phases include, acquisition, development and realization.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Project Phases
Project Phases
Code
Description
Start Status
Select Value
End Status
Select Value
Search
10 rows per page
Search results (7)
Create or change
Add
New

Code	Description	Sort Direction	Start Status	End Status	Change Timesheets	Allow Non End Status Timesheets
Acquisitie	Acquisitie	20	☑	☐	☑	☑
Ontwikkeling	Ontwikkeling	30	☐	☐	☑	☑
Planning	Planning	10	☑	☐	☑	☑
Realisatie	Realisatie	40	☐	☐	☑	☑
Uitbollen	Uitbollen (restant)	40	☐	☑	☐	☐
Uitvoering	Uitvoering	50	☑	☐	☑	☑
Verkoop	Verkoop	10	☑	☐	☑	☑

Code *
Description *
Sort Direction *
Explanation
Icon (URL)
Start Status ☐
End Status ☐
Change Timesheets ☑
Allow Non End Status Timesheets ☑

The meaning of the entry fields is:

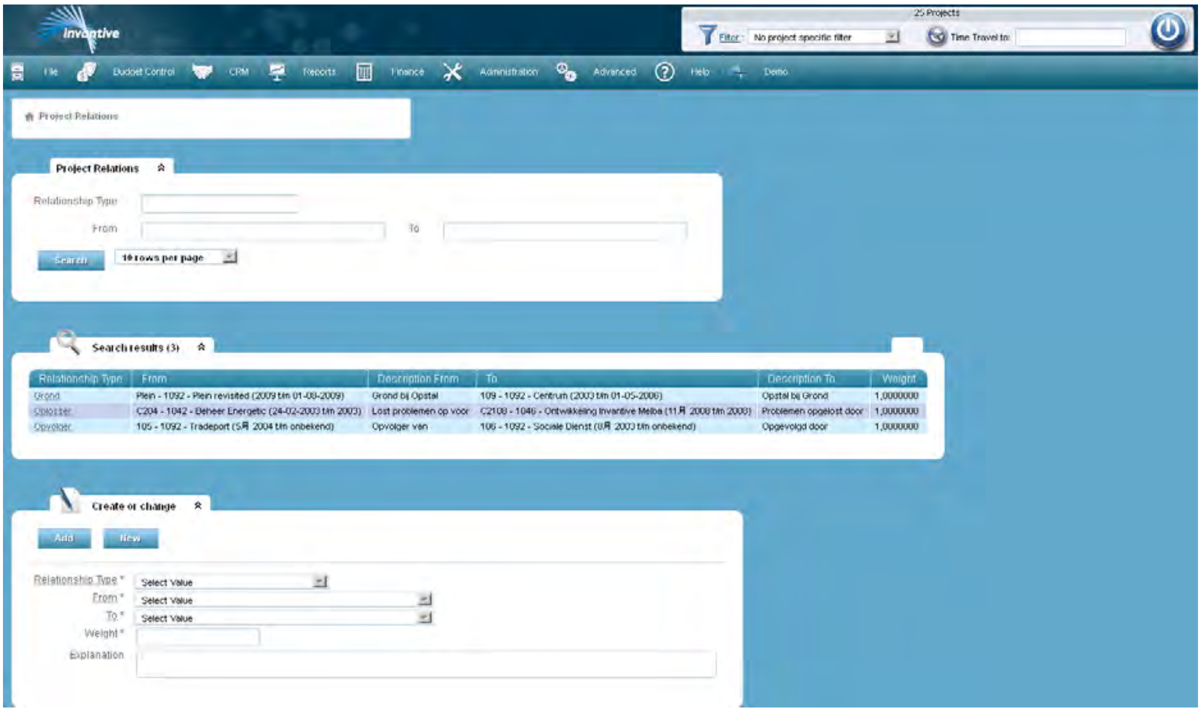
Code	The code for the project phase.
Description	The description.
Sort Order	A numerical value on which the project phases are sorted when a list of them is shown in a list box in a screen.
Explanation	Possible explanation.
Icon (URL)	The relative URL of the icon belonging to the project phase. The icon must be 16 pixels high and 16 pixels wide.
Modifications Hours	Modifications in the hour registrations are possible when checked,
Allow Non End Status Timesheets	Allow hours from the hour registration that have not reached the end status when checked.

Project Phase Transitions

Enter text here.

Project Relations

In this screen you can register and change project relations. A project relationship describes the relationship between two or more projects.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Project Relations
Project Relations
Relationship Type
From
To
Search
10 rows per page
Search results (3)
Create or change
Add
New
Relationship Type *
From *
To *
Weight *
Explanation
Select Value
Select Value
Select Value

Relationship Type	From	Description From	To	Description To	Weight
Grond	Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Grond bij Opstal	109 - 1092 - Centrum (2003 t/m 01-05-2006)	Opstal bij Grond	1,0000000
Oplosser	C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003)	Lost problemen op voor	C2108 - 1046 - Ontwikkeling Invantive Melba (11月 2008 t/m 2008)	Problemen opgelost door	1,0000000
Opvolger	105 - 1092 - Tradeport (5月 2004 t/m onbekend)	Opvolger van	106 - 1092 - Sociale Dienst (8月 2003 t/m onbekend)	Opgevolgd door	1,0000000

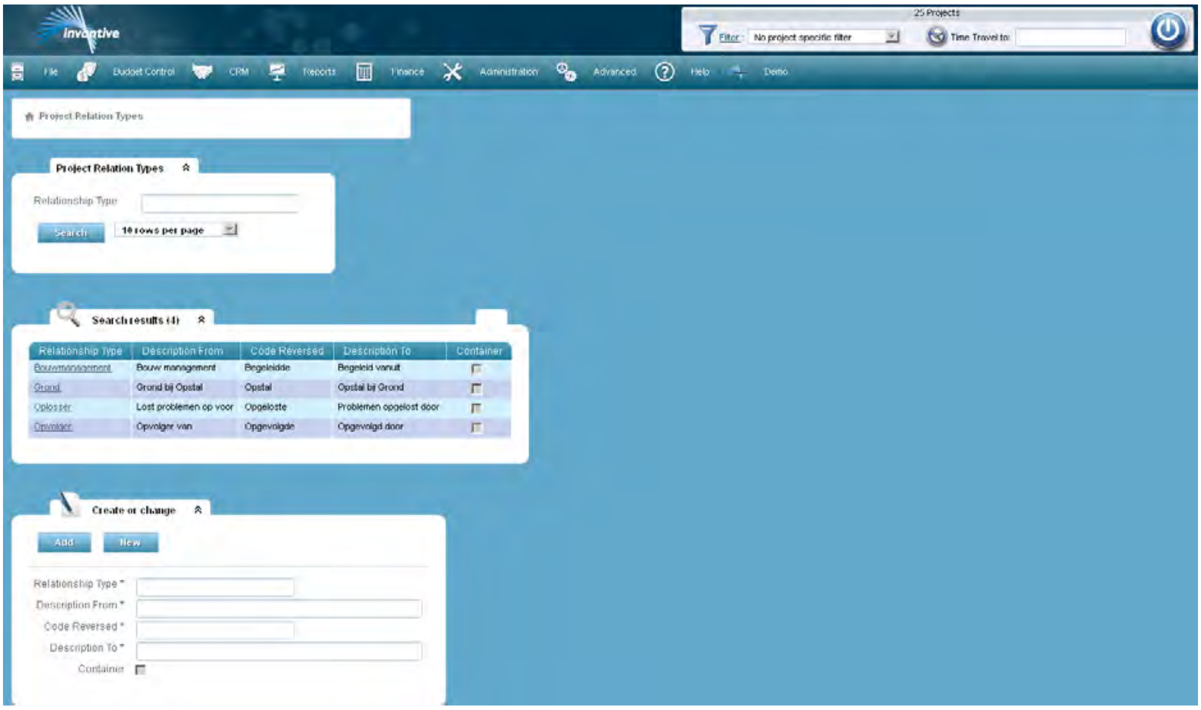
The meaning of the entry fields is:

Relationship Type	The Project Relation Type 163.
From	The project 124 at the begin point of the project relation.
To	The project 124 at the end point of the project relation.
Weight	Shows the dependency of the relationship. Expressed in a number from 0 to 1.
Explanation	Possible explanation

Project Relation Types

In this screen you can project relation types. budget for the next expose.

A project relationship describes the relationship between two or more projects. Project relations can be registered in Project Relations 162.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Project Relation Types
Project Relation Types
Relationship Type
Search
10 rows per page
Search results (4)
Create or change
Add
New
Relationship Type *
Description From *
Code Reversed *
Description To *
Container

Relationship Type	Description From	Code Reversed	Description To	Container
Bouwmanagement	Bouw management	Begeleidde	Begeleid vanuit	☐
Grond	Grond bij Opstal	Opstal	Opstal bij Grond	☐
Oplosser	Lost problemen op voor	Opgeloste	Problemen opgelost door	☐
Opvolger	Opvolger van	Opgevolgde	Opgevolgd door	☐

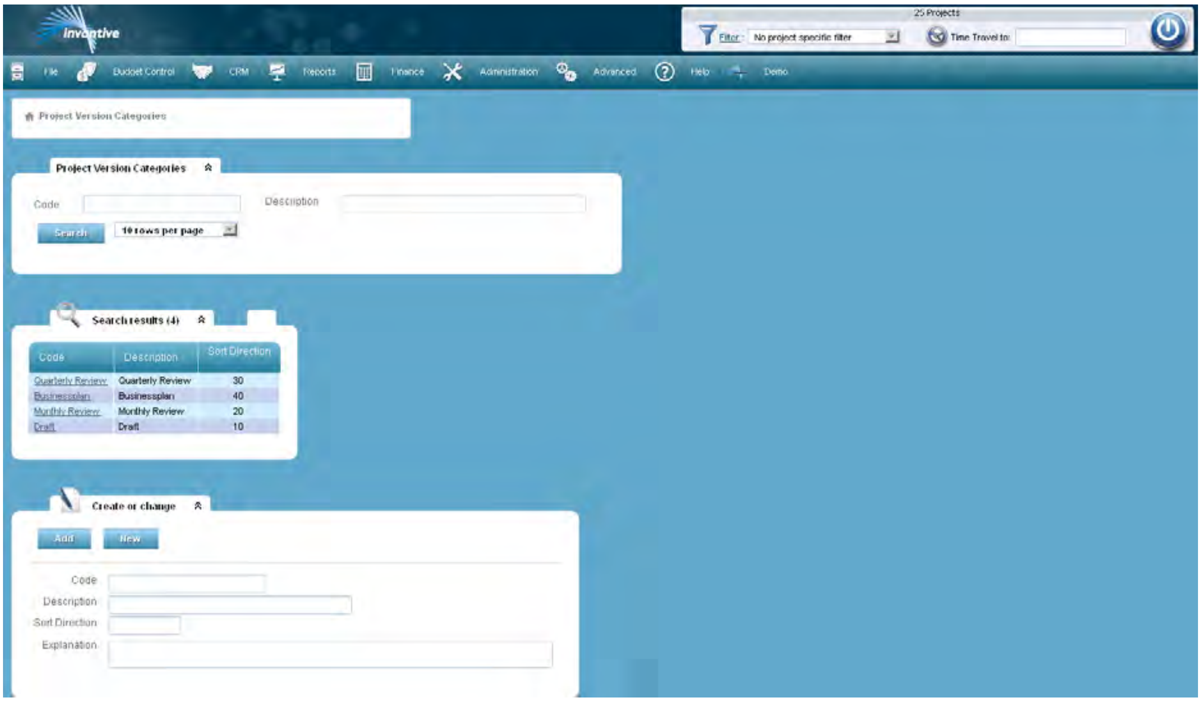
The meaning of the entry fields is:

Relationship Type	The code of the project relation type as viewed from the begin point of the project relationship.
Description from	Description of the project relationship as viewed from the start of the project relationship.
Code Reversed	The code of the project relation type as viewed from the end point of the project relationship.
Description to	Description of the project relationship as viewed from the end point of the project relationship.
Container	The begin point of the project relationship is a container project, when checked.

Project Version Categories

In this screen you can register and changeëthe project version category.

A project version category is a tool to subdivide project versions 53 in, for example, different reports like ‘quarterly review’, ‘annual report’ and ‘prognosis 2011’.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Project Version Categories
Project Version Categories
Code
Description
Search
Search results (4)
Create or change
Add
New
Code
Description
Sort Direction
Explanation

10 rows per page

Code	Description	Sort Direction
Quarterly Review	Quarterly Review	30
Businessplan	Businessplan	40
Monthly Review	Monthly Review	20
Draft	Draft	10

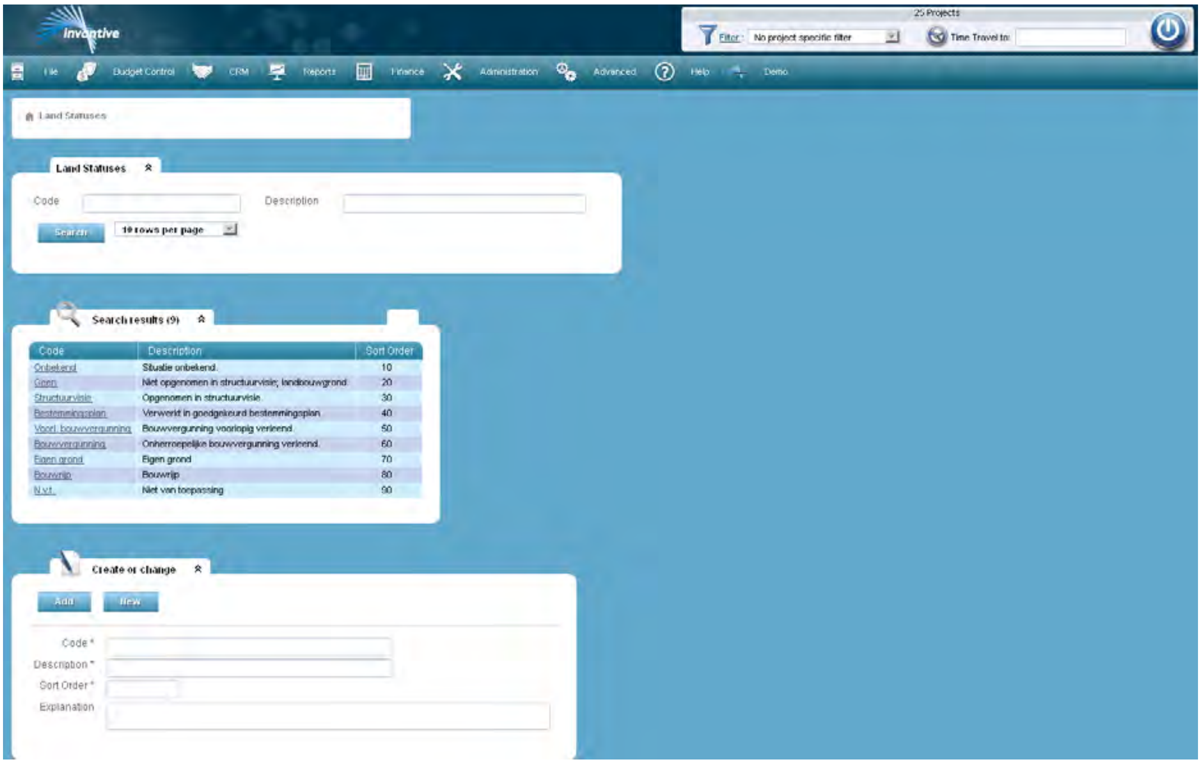
The meaning of the entry fields is:

Code	The unique code of the project version category.
Description	The description of the project version category.
Sort Order	A numeric value on which the project version categories are sorted when they are shown in a list box in a screen.
Explanation	Possible explanation.

Land Statuses

In this screen you can register and modify land statuses.

A ground status describes the state of the land required for the realization of the project such as "Private land" or "Ready to be developed".


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Land Statuses
Land Statuses
Code
Description
Search
10 rows per page
Search results (9)
Create or change
Add
New
Code *
Description *
Sort Order *
Explanation

Code	Description	Sort Order
Onbekend	Situatie onbekend.	10
Geen	Niet opgenomen in structuurvisie; landbouwgrond.	20
Structuurvisie	Opgenomen in structuurvisie.	30
Bestemmingsplan	Verwerkt in goedgekeurd bestemmingsplan.	40
Voorl. bouwvergunning	Bouwvergunning voorlopig verleend.	50
Bouwvergunning	Onherroepelijke bouwvergunning verleend.	60
Eigen grond	Eigen grond	70
Bouwrijp	Bouwrijp	80
N.v.t.	Niet van toepassing	90

The meaning of the entry fields is:

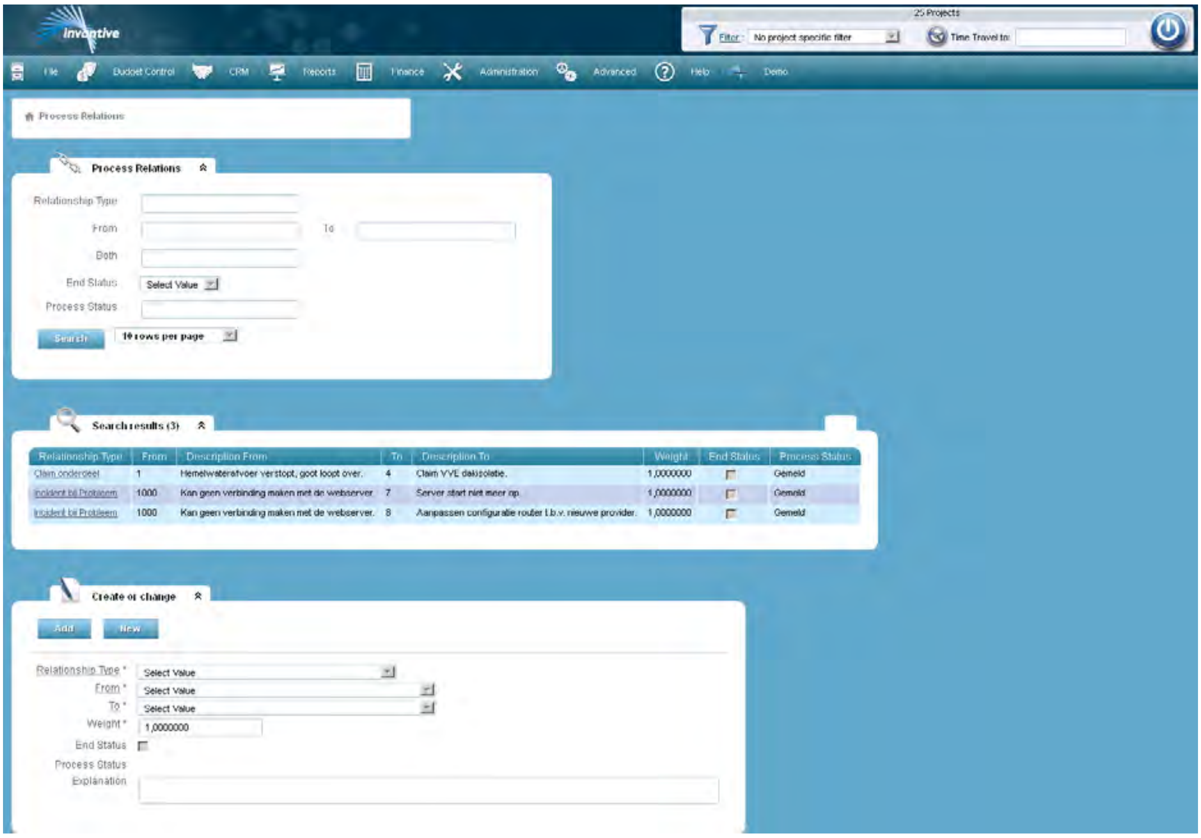
Code	The code used for the land status.
Description	The description of the land status.
Sort Order	A numerical value on which the land statuses are sorted when a list is visible in the screen.

Processes

Enter text here.

Process Relations

In this screen you can register and change process relations.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Process Relations
Process Relations
Relationship Type
From
To
Both
End Status
Select Value
Process Status
Search
10 rows per page
Search results (3)
Create or change
Add
New
Relationship Type *
Select Value
From *
Select Value
To *
Select Value
Weight *
1,0000000
End Status
Process Status
Explanation

Relationship Type	From	Description From	To	Description To	Weight	End Status	Process Status
Claim onderdeel	1	Hemelwaterafvoer verstopt, goot loopt over.	4	Claim VVE dakisolatie.	1,0000000	☐	Gemeld
Incident bij Probleem	1000	Kan geen verbinding maken met de webserver.	7	Server start niet meer op.	1,0000000	☐	Gemeld
Incident bij Probleem	1000	Kan geen verbinding maken met de webserver.	8	Aanpassen configuratie router t.b.v. nieuwe provider.	1,0000000	☐	Gemeld

The meaning of the entry fields is:

Relationship Type	Reference to a process relation type as registered in Process Relation Types 174. A process relation type describes the relationship between two organizations.
From	Process Relation as viewed from the start point of the process relation.
To	Process Relation as viewed from the end point of the process relation.
Weight	The weight or intensity of the relationship between the two processes. The weight or saturation of the number is shown from the chosen description of the Process Relation Type 174.
Explanation	Optional explanation of the process relation.

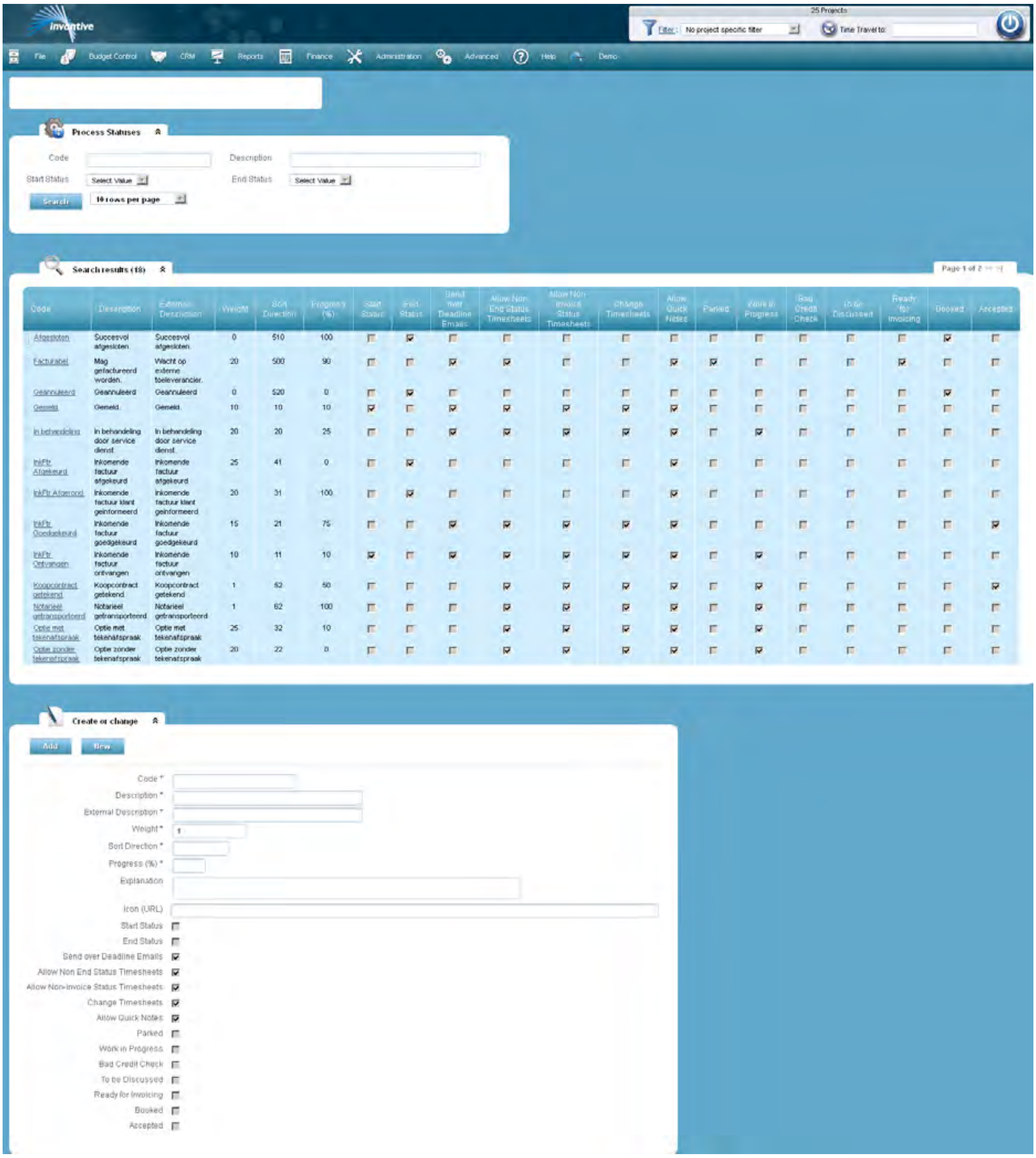
The meaning of the other fields:

End Status	If checked, the process is in the end status.

Process Status

In this screen you can register and change process statuses.

A process status describes the condition of a process (see Processes) 53.



Process Statuses

Code ___ Description ___

Start Status: Select Value End Status: Select Value

10 rows per page

Search results (18)

Code	Description	External Description	Weight	Sort Direction	Progress (%)	Start Status	End Status	Send over Deadline Emails	Allow Non End Status Timesheets	Allow Non-invoice Status Timesheets	Change Timesheets	Allow Quick Notes	Parked	Work in Progress	Bad Credit Check	To be Discussed	Ready for Invoicing	Booked	Accepted
Afgesloten	Succesvol afgesloten.	Succesvol afgesloten.	0	510	100	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐
Facturabel	Mag gefactureerd worden.	Wacht op externe toeleverancier.	20	500	90	☐	☐	☑	☑	☐	☐	☑	☑	☐	☐	☐	☑	☐	☐
Geannuleerd	Geannuleerd	Geannuleerd	0	520	0	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐
Gemeld	Gemeld.	Gemeld.	10	10	10	☑	☐	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐	☐	☐
In behandeling	In behandeling door service dienst.	In behandeling door service dienst.	20	20	25	☐	☐	☑	☑	☑	☑	☑	☐	☑	☐	☐	☐	☐	☐
InkFtr Afgekeurd	Inkomende factuur afgekeurd	Inkomende factuur afgekeurd	25	41	0	☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐
InkFtr Afgerond	Inkomende factuur klant geinformeerd	Inkomende factuur klant geinformeerd	20	31	100	☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐
InkFtr Goedgekeurd	Inkomende factuur goedgekeurd	Inkomende factuur goedgekeurd	15	21	75	☐	☐	☑	☑	☑	☑	☑	☐	☐	☐	☐	☐	☐	☑
InkFtr Ontvangen	Inkomende factuur ontvangen	Inkomende factuur ontvangen	10	11	10	☑	☐	☑	☑	☑	☑	☑	☐	☑	☐	☐	☐	☐	☐
Koopcontract getekend	Koopcontract getekend	Koopcontract getekend	1	52	50	☐	☐	☐	☑	☑	☑	☑	☐	☑	☐	☐	☐	☐	☑
Notarieel getransporteerd	Notarieel getransporteerd	Notarieel getransporteerd	1	62	100	☐	☐	☐	☑	☑	☑	☑	☐	☑	☐	☐	☐	☐	☐
Optie met tekenafspraak	Optie met tekenafspraak	Optie met tekenafspraak	25	32	10	☐	☐	☐	☑	☑	☑	☑	☐	☑	☐	☐	☐	☐	☐
Optie zonder tekenafspraak	Optie zonder tekenafspraak	Optie zonder tekenafspraak	20	22	0	☐	☐	☐	☑	☑	☑	☑	☐	☑	☐	☐	☐	☐	☐

Create or change

Code *	
Description *	
External Description *	
Weight *	1
Sort Direction *	
Progress (%) *	
Explanation	
Icon (URL)	
Start Status	☐
End Status	☐
Send over Deadline Emails	☑
Allow Non End Status Timesheets	☑
Allow Non-invoice Status Timesheets	☑
Change Timesheets	☑
Allow Quick Notes	☑
Parked	☐
Work in Progress	☐
Bad Credit Check	☐
To be Discussed	☐
Ready for Invoicing	☐
Booked	☐
Accepted	☐

The meaning of the entry fields is:

Code	The code.
Description	The description.
External Description	The description used for displaying on reports and screens designed for third parties such as customers.
Weight	The importance of the process status for planning purposes.
Sort Order	A numerical value on which the statuses are sorted when a list is visible in the screen.
Progress (%)	Indicates to what extent the process is completed.
Icon (URL)	The relative URL of the icon belonging to the process status. The icon must be 16 pixels high and 16 pixels wide.
Start status	Indicates if this status is the status with which the performing of the process begins.
End Status	Indicates if this status is the status with which the performing of the process ends.
Send over Deadline Emails	Indicates if emails are sent to the process holder if the process passes the deadline.
Allow Non End Status Times-	Indicates if the process status allows hours that do not have the end status.

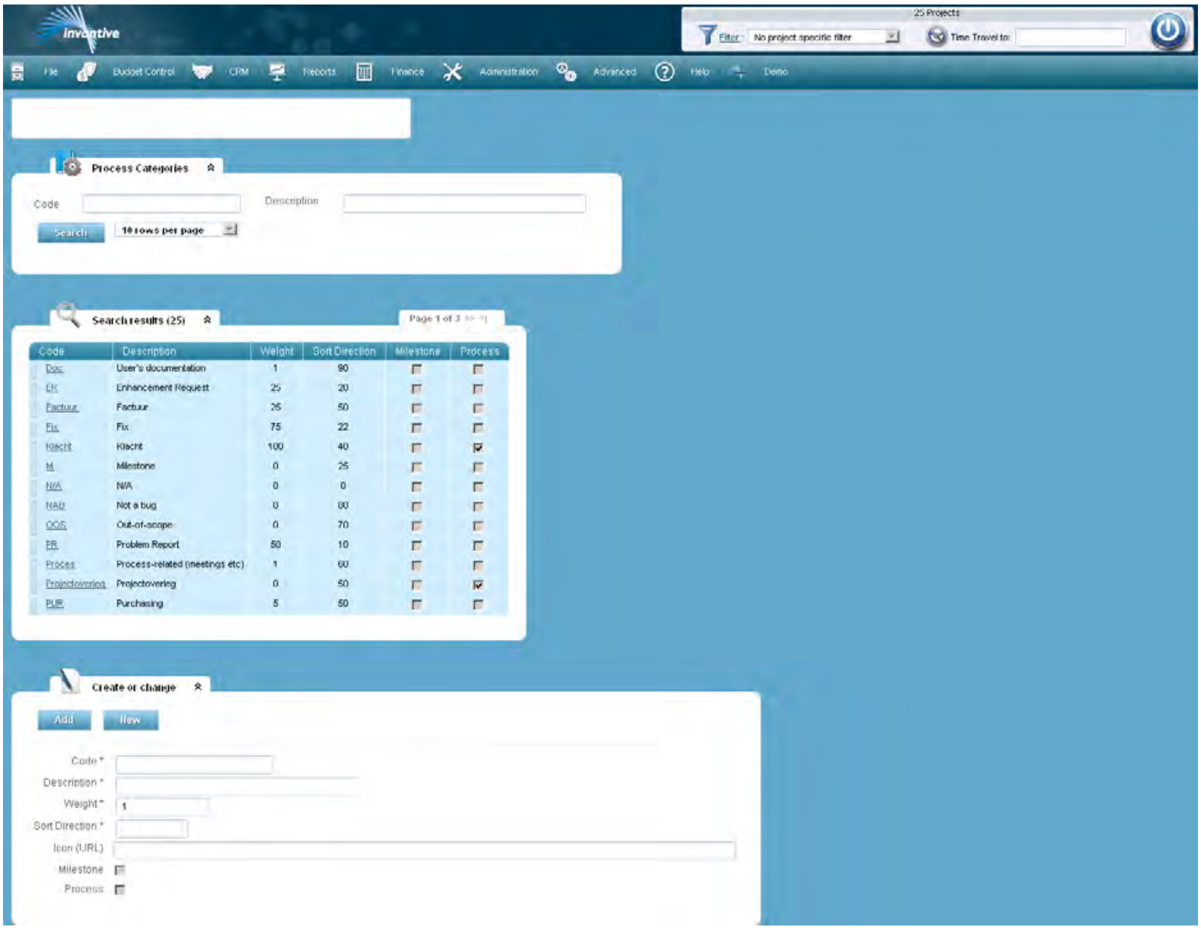
heets	
Allow Non-invoice Status Timesheets	Indicates if the process status allows hours that do not have the invoice status.
Modifications Hours	Indicates if it is allowed to change hours.
Allow Quick Notes	Indicates if it is allowed to change work instructions.
Parked	Indicates if the execution of the process is temporarily postponed.
Work in progress	Indicates if the process is executed.
Bad Credit Check	Indicates that the funding of the process is insufficient.
To Be Discussed	Indicates that the process should be discussed.
Ready for Invoicing	Indicates if the process is ready to be invoiced.
Booked	Indicates if the process is booked and by this will obtain the end status.
Accepted	Indicates that the process was approved for implementation.

Process Categories

In this screen you can register and change process categories.

A process category is a group of processes (see Processes) 53. Common categories are Complaint, Malfunction, Request and Modification.

Categories are used to indicate the type of process. A fixed 'workflow' may be linked as described in Process Status Transitions 171.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Process Categories
Search
Search results (25)
Page 1 of 3
Create or change
Add
New

Code

Description

10 rows per page

Code	Description	Weight	Sort Direction	Milestone	Process
Doc	User's documentation	1	90	☐	☐
ER	Enhancement Request	25	20	☐	☐
Factuur	Factuur	25	50	☐	☐
Fix	Fix	75	22	☐	☐
Klacht	Klacht	100	40	☐	☑
M	Milestone	0	25	☐	☐
N/A	N/A	0	0	☐	☐
NAB	Not a bug	0	80	☐	☐
OOS	Out-of-scope	0	70	☐	☐
PR	Problem Report	50	10	☐	☐
Proces	Process-related (meetings etc)	1	60	☐	☐
Projectoverleg	Projectoverleg	0	50	☐	☑
PUR	Purchasing	5	50	☐	☐

Code *

Description *

Weight * 1

Sort Direction *

Icon (URL)

Milestone ☐

Process ☐

The meaning of the entry fields is:

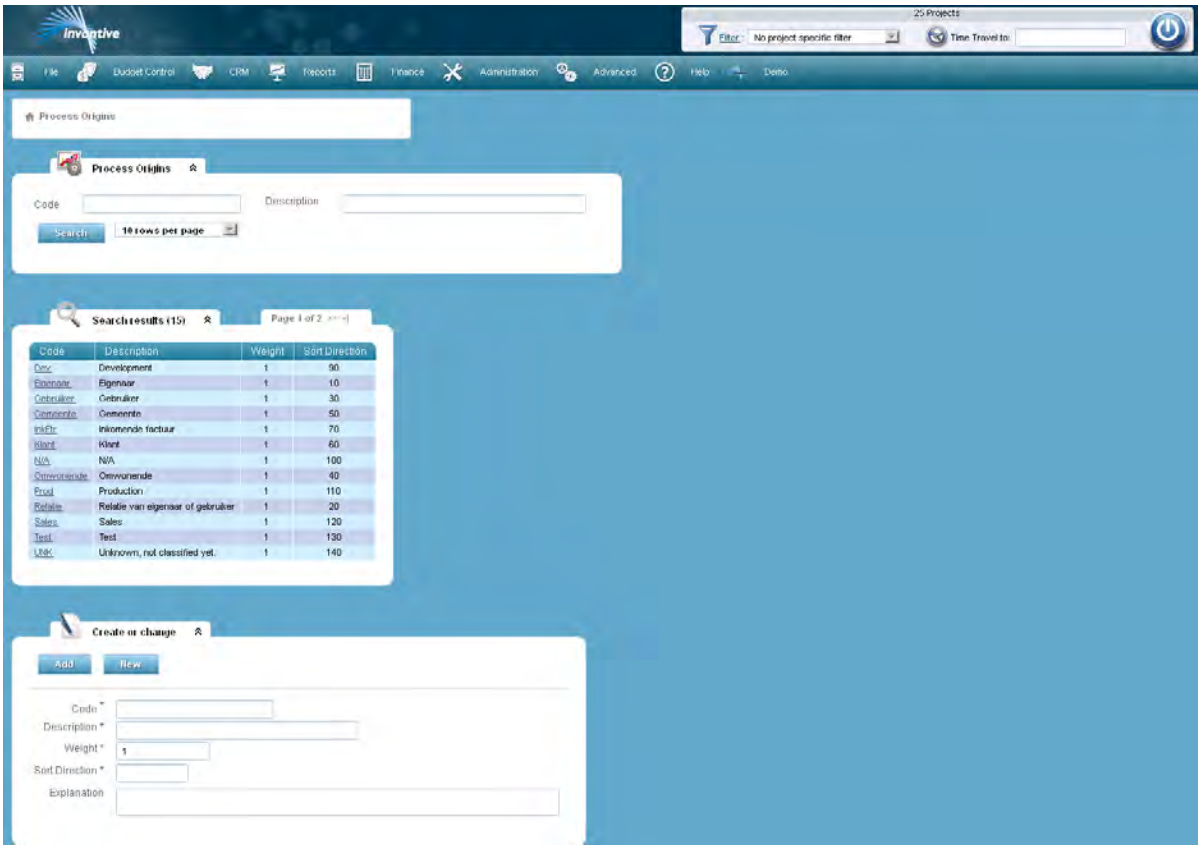
Code	The code.
Description	The description.
Sort Order	A numeric value on which the categories are sorted when they are shown in a list box in a screen.

Milestone	Indicates if the processes belonging to this process category are a ‘milestone’.
Process	Indicates if the processes belonging to this process category are of the type ‘process’. Processes belong to the type ‘process’ if they do not result in an end product but support the process.

Process Provenances

In this screen you can register and edit process provenances.

A process provenance is a grouping of processes (see Processes) 53 on the basis of provenance.



Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Process Origins
Process Origins
Code
Description
Search
10 rows per page
Search results (15)
Page 1 of 2
Create or change
Add
New

Code	Description	Weight	Sort Direction
Dev	Development	1	90
Eigenaar	Eigenaar	1	10
Gebruiker	Gebruiker	1	30
Gemeente	Gemeente	1	50
InkFtr	Inkomende factuur	1	70
Klant	Klant	1	60
N/A	N/A	1	100
Omwonende	Omwonende	1	40
Prod	Production	1	110
Relatie	Relatie van eigenaar of gebruiker	1	20
Sales	Sales	1	120
Test	Test	1	130
UNK	Unknown, not classified yet.	1	140

Code *
Description *
Weight * 1
Sort Direction *
Explanation

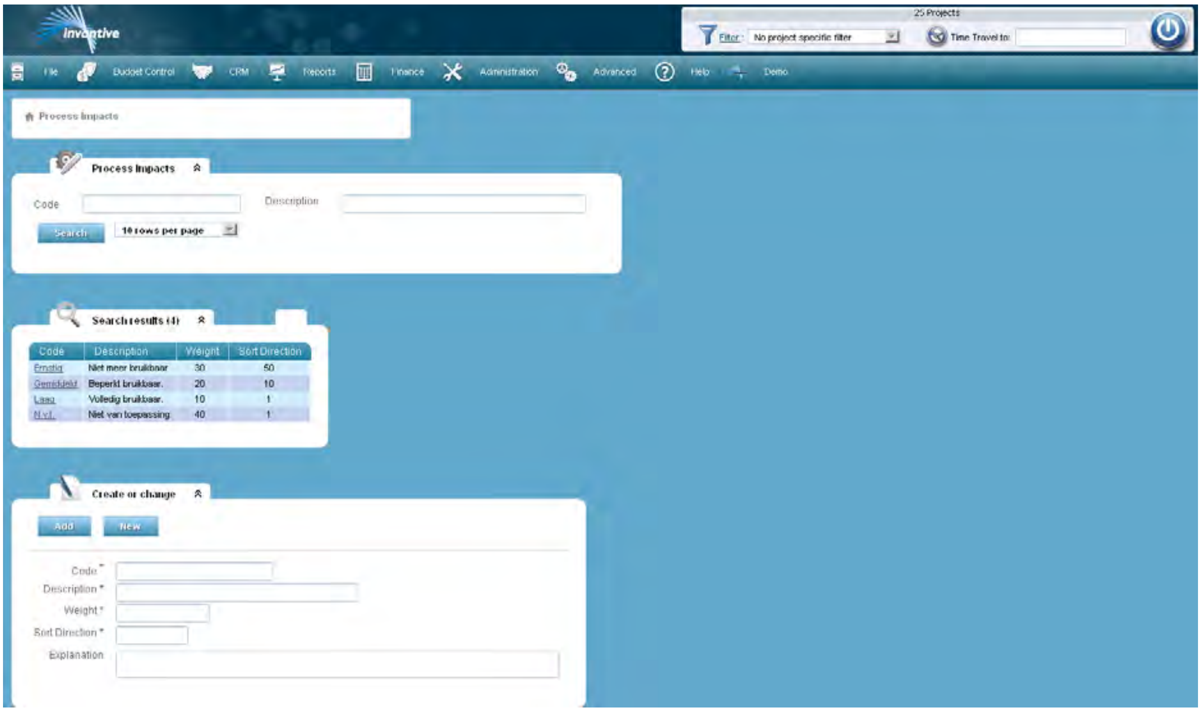
The meaning of the entry fields is:

Code	The code.
Description	The description.
Sort Order	A numeric value on which the process origins are sorted when they are shown in a list box in a screen.
Explanation	Possible explanation.

Process Impacts

In this screen you can register and change process impacts.

A process impact is a group of processes (see Processes) 53 bases on impact. The process impact determines often the priority in combination with urgency.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Process Impacts
Process Impacts
Code
Description
Search
10 rows per page
Search results (4)
Create or change
Add
New
Code *
Description *
Weight *
Sort Direction *
Explanation

Code	Description	Weight	Sort Direction
Ernstig	Niet meer bruikbaar	30	50
Gemiddeld	Beperkt bruikbaar.	20	10
Laag	Volledig bruikbaar.	10	1
N.v.t.	Niet van toepassing	40	1

The meaning of the entry fields is:

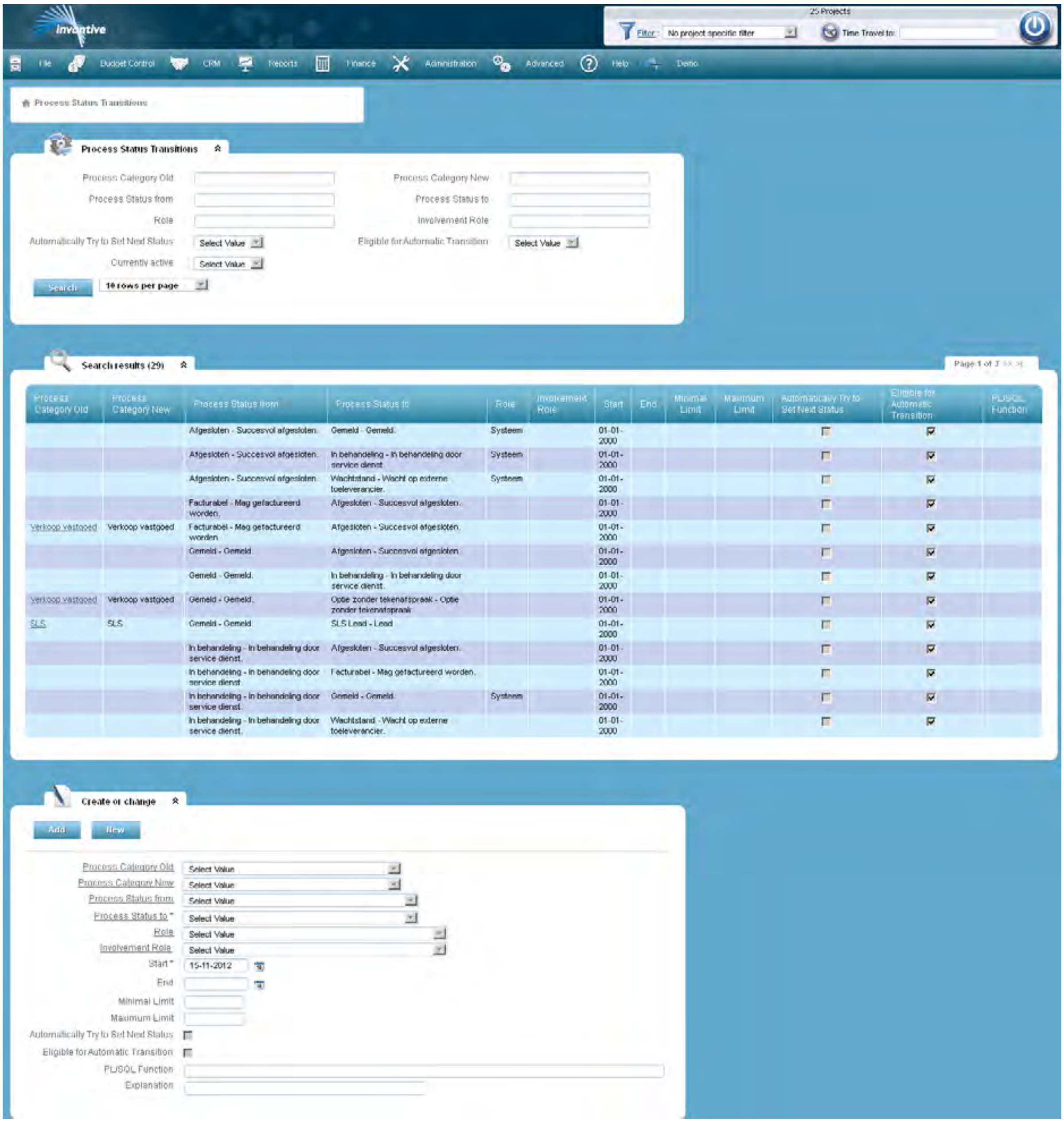
Code	The code.
Description	The description.
Weight	The weight of the impact.
Sort Order	A numerical value on which the impacts are sorted when a list is visible in the screen.
Explanation	Possible explanation.

Process Status Transition

In this screen you can register and change transitions between process statuses.

A transition specifies a valid change of the status of a process to a different status. This allows workflows to be defined.

Complex transitions can also be enforced with an additional business rule.



Process Status Transitions

Process Category Old		Process Category New	
Process Status from		Process Status to	
Role		Involvement Role	
Automatically Try to Set Next Status	Select Value	Eligible for Automatic Transition	Select Value
Currently active	Select Value		

Search — 10 rows per page

Search results (29)

Page 1 of 3

Process Category Old	Process Category New	Process Status from	Process Status to	Role	Involvement Role	Start	End	Minimal Limit	Maximum Limit	Automatically Try to Set Next Status	Eligible for Automatic Transition	PL/SQL Function
		Afgesloten - Succesvol afgesloten.	Gemeld - Gemeld.	Systeem		01-01-2000				☐	☑	
		Afgesloten - Succesvol afgesloten.	In behandeling - In behandeling door service dienst	Systeem		01-01-2000				☐	☑	
		Afgesloten - Succesvol afgesloten.	Wachtstand - Wacht op externe toeleverancier.	Systeem		01-01-2000				☐	☑	
		Facturabel - Mag gefactureerd worden.	Afgesloten - Succesvol afgesloten.			01-01-2000				☐	☑	
Verkoop vastgoed	Verkoop vastgoed	Facturabel - Mag gefactureerd worden	Afgesloten - Succesvol afgesloten.			01-01-2000				☐	☑	
		Gemeld - Gemeld.	Afgesloten - Succesvol afgesloten.			01-01-2000				☐	☑	
		Gemeld - Gemeld.	In behandeling - In behandeling door service dienst.			01-01-2000				☐	☑	
Verkoop vastgoed	Verkoop vastgoed	Gemeld - Gemeld.	Optie zonder tekenafspraak - Optie zonder tekenafspraak			01-01-2000				☐	☑	
SLS	SLS	Gemeld - Gemeld.	SLS Lead - Lead			01-01-2000				☐	☑	
		In behandeling - In behandeling door service dienst.	Afgesloten - Succesvol afgesloten.			01-01-2000				☐	☑	
		In behandeling - In behandeling door service dienst	Facturabel - Mag gefactureerd worden.			01-01-2000				☐	☑	
		In behandeling - In behandeling door service dienst.	Gemeld - Gemeld.	Systeem		01-01-2000				☐	☑	
		In behandeling - In behandeling door service dienst.	Wachtstand - Wacht op externe toeleverancier.			01-01-2000				☐	☑	

Create or change

Add New

Process Category Old	Select Value
Process Category New	Select Value
Process Status from	Select Value
Process Status to *	Select Value
Role	Select Value
Involvement Role	Select Value
Start *	15-11-2012
End	
Minimal Limit	
Maximum Limit	
Automatically Try to Set Next Status	☐
Eligible for Automatic Transition	☐
PL/SQL Function	
Explanation	

The meaning of the entry fields is:

Process Category Old	Reference to the process category in the initial situation as registered in Process Categories 173.
Process Category New	Reference to the process category in the new situation as registered in Process Categories 173.
Process Status from	Reference to the process status in the initial situation as registered in Processt Statuses 167.
Process Status to	Reference to the process status in the new situation as registered in Process Statuses 167.
Role	Reference to a role as registered in Roles 158. Indicates which role is necessary to make the process status transition possible.
Involvement Role	Reference to an involvement role as registered in Involvement Roles 200. Indicates which involvement role is necessary to make the process status transition possible.
Start	Start time of the process status transition.
End	A task process status transition is allowed until this date.
Minimal Limit	Minimum value of the limit of user involvement in relation to this process, project, organization or the involvement of the role (the first of these two which has a value is used), to al-

	low this state transition.
Maximum Limit	Maximum value of the limit of user involvement in relation to this process, project, organization or the involvement of the role (the first of these two which has a value is used), to allow this state transition.
Automatically Try to Set Next Status	Indicates if the system should try automatically to set the next status if the task meets the conditions and there is only one step further possible. The trying stops when there are multiple or zero potential next steps.
PL/SQL Function	Name of the boolean PL/SQL function that results in "true" or "not true". When the function results in ‘true’ the process status transition is permitted. In case the Boolean function results in ‘not true’ or ‘null’ the process status transition is not allowed.
Explanation	Remarks concerning the purpose of the process status transition.

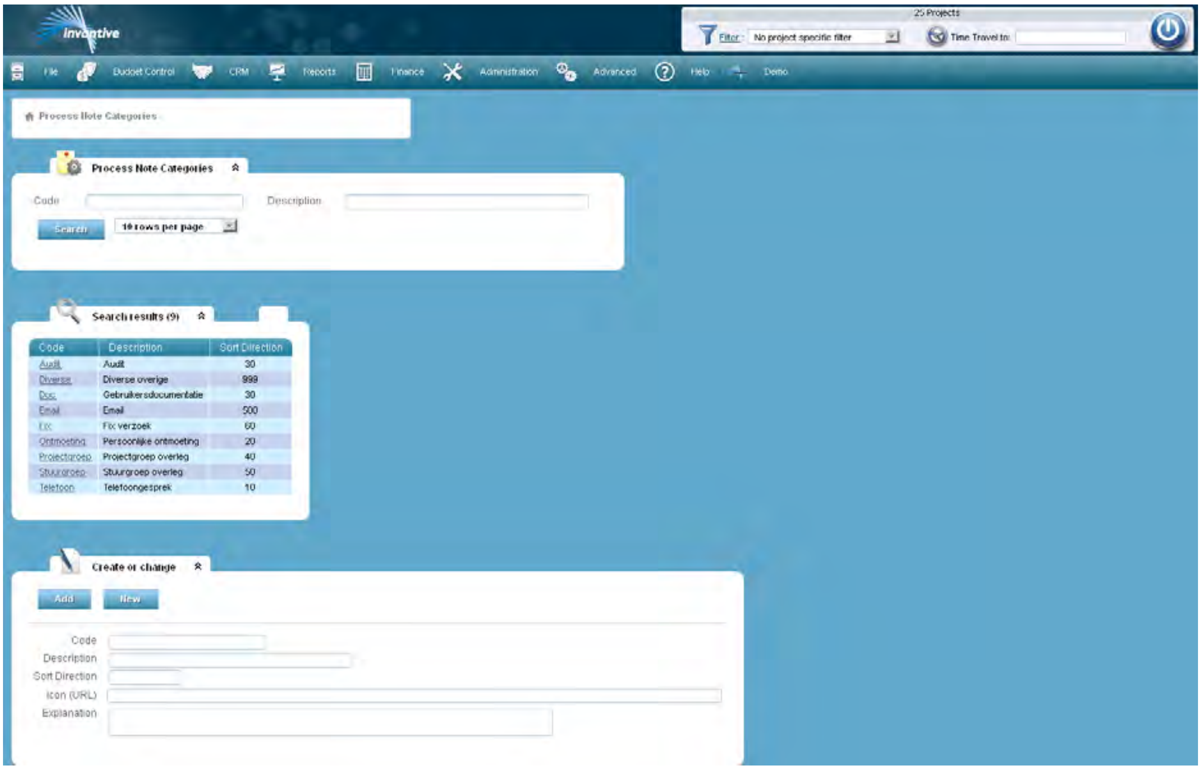
Analyses

Building workflow based on process status transitions is flexible, but sometimes it is difficult determining which steps are run with trying to achieve the next status automatically. With a manual action, several steps at once can be put with any associated actions indirectly through additional business rules. The steps - including automatically made steps - afterwards can be found in the screen Logging 264.

Process Note Categories

In this screen you can register and change process note categories.

A process note category is a group of process notes (see processes 53). Common categories are ‘Email’, ‘Telephone’, and ‘Project Group’.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Process Note Categories
Process Note Categories
Code
Description
Search
10 rows per page
Search results (9)
Create or change
Add
New
Code
Description
Sort Direction
Icon (URL)
Explanation

Code	Description	Sort Direction
Audit	Audit	30
Diverse	Diverse overige	999
Doc	Gebruikersdocumentatie	30
Email	Email	500
Fix	Fix verzoek	60
Ontmoeting	Persoonlijke ontmoeting	20
Projectgroep	Projectgroep overleg	40
Stuurgroep	Stuurgroep overleg	50
Telefoon	Telefoongesprek	10

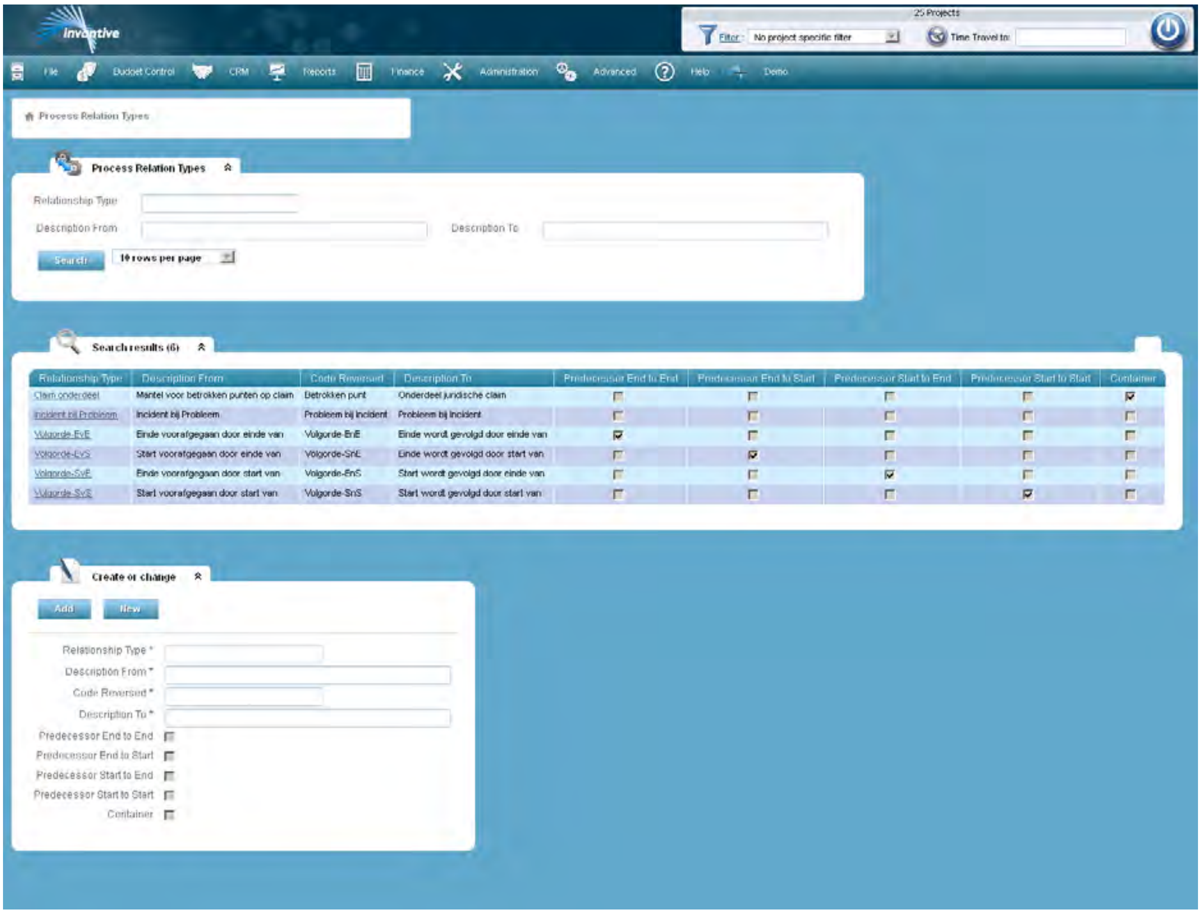
The meaning of the entry fields is:

Code	The code.
Description	The description.
Sort Order	A numeric value on which the categories are sorted when they are shown in a list box in a screen.
Explanation	Possible explanation.

Process Relation Types

In this screen you can register and change process relation types.

A process relation type describes the relation type between two processes.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Process Relation Types
Process Relation Types
Relationship Type
Description From
Description To
Search
10 rows per page
Search results (6)
Create or change
Add
New
Relationship Type *
Description From *
Code Reversed *
Description To *
Predecessor End to End
Predecessor End to Start
Predecessor Start to End
Predecessor Start to Start
Container

Relationship Type	Description From	Code Reversed	Description To	Predecessor End to End	Predecessor End to Start	Predecessor Start to End	Predecessor Start to Start	Container
Claim onderdeel	Mantel voor betrokken punten op claim	Betrokken punt	Onderdeel juridische claim	☐	☐	☐	☐	☑
Incident bij Probleem	Incident bij Probleem	Probleem bij Incident	Probleem bij Incident	☐	☐	☐	☐	☐
Volgorde-EvE	Einde voorafgegaan door einde van	Volgorde-EnE	Einde wordt gevolgd door einde van	☑	☐	☐	☐	☐
Volgorde-EvS	Start voorafgegaan door einde van	Volgorde-SnE	Einde wordt gevolgd door start van	☐	☑	☐	☐	☐
Volgorde-SvE	Einde voorafgegaan door start van	Volgorde-EnS	Start wordt gevolgd door einde van	☐	☐	☑	☐	☐
Volgorde-SvS	Start voorafgegaan door start van	Volgorde-SnS	Start wordt gevolgd door start van	☐	☐	☐	☑	☐

The meaning of the entry fields is:

Relationship Type	Unique alphanumeric code that identifies the process relation type as viewed from the perspective of the first party relation.
Description from	Process Relation Type as viewed from the start point of the process relation. Is shown in reports and screens.
Code Reversed	Unique alphanumeric code that identifies the process relation type as viewed from the perspective of the second party relation.
Description to	Process Relation Type as viewed from the end point of the process relation. Is shown in reports and screens.
Predecessor End to End	If checked, the end of a previous process preceded by the end of a previous process is viewed from the starting end.
Predecessor End to Start	f checked, the end of a previous process preceded by the start of a new process is viewed from the starting end.
Predecessor Start to End	If checked, the start of a new process preceded by the end of a previous process is viewed from the starting end.
Predecessor Start to Start	If checked, the end of a previous process preceded by the start of a new process is viewed from the starting end.
Container	When checked the start point from the relationship is a container organization.

Process Unit Status

Enter text here.

Process Unit Status Transitions

Enter text here.

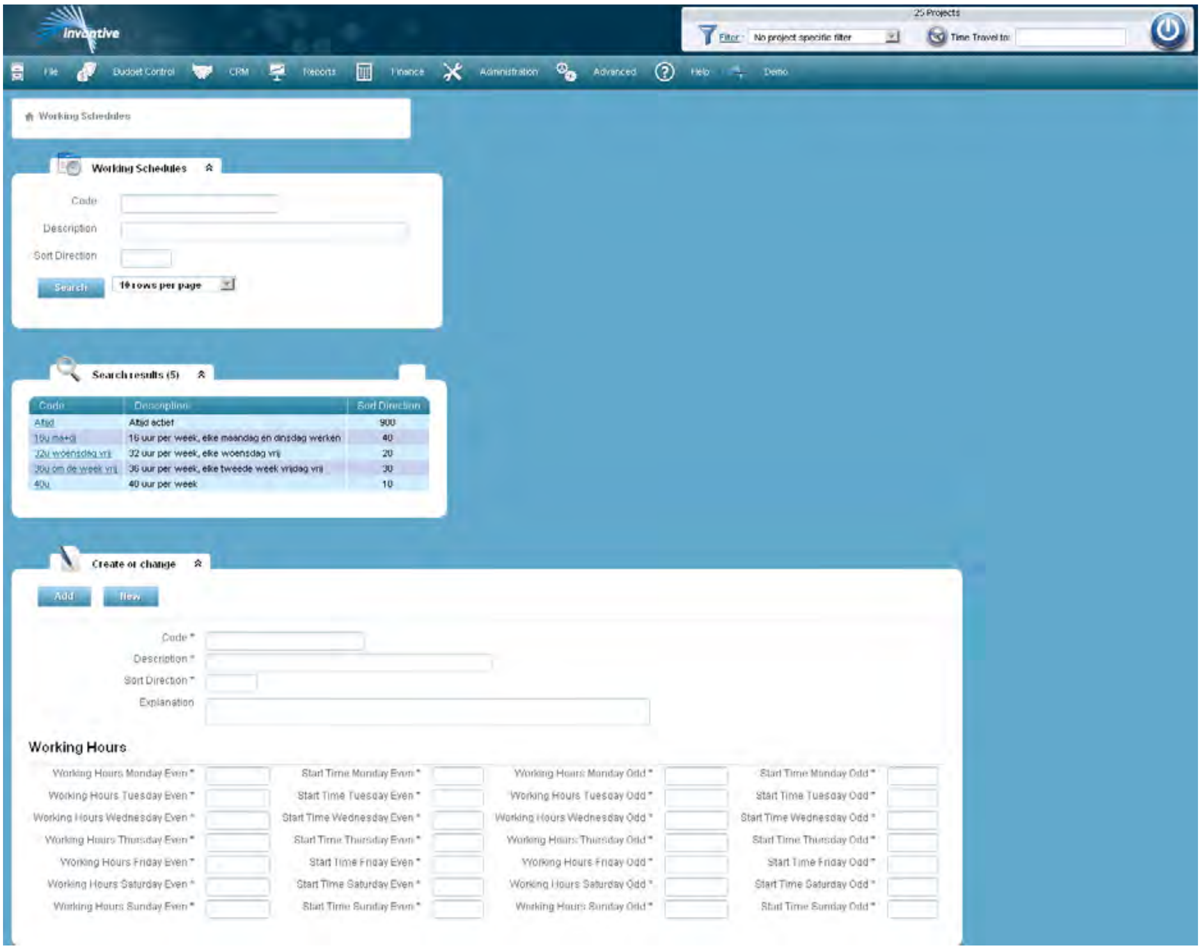
Working Schedules

Enter text here.

Working Schedules

This screen allows you to record and modify workflows.

A working schedule describes the hours contractual agreed upon for a labor agreement or the hiring of permanent and temporary personnel/staff.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Working Schedules
Working Schedules
Code
Description
Sort Direction
Search
Search results (5)
Create or change
Add
New
Code *
Description *
Sort Direction *
Explanation
Working Hours
Working Hours Monday Even *
Working Hours Tuesday Even *
Working Hours Wednesday Even *
Working Hours Thursday Even *
Working Hours Friday Even *
Working Hours Saturday Even *
Working Hours Sunday Even *
Start Time Monday Even *
Start Time Tuesday Even *
Start Time Wednesday Even *
Start Time Thursday Even *
Start Time Friday Even *
Start Time Saturday Even *
Start Time Sunday Even *
Working Hours Monday Odd *
Working Hours Tuesday Odd *
Working Hours Wednesday Odd *
Working Hours Thursday Odd *
Working Hours Friday Odd *
Working Hours Saturday Odd *
Working Hours Sunday Odd *
Start Time Monday Odd *
Start Time Tuesday Odd *
Start Time Wednesday Odd *
Start Time Thursday Odd *
Start Time Friday Odd *
Start Time Saturday Odd *
Start Time Sunday Odd *

10 rows per page

Code	Description	Sort Direction
Altijd	Altijd actief	900
16u ma+di	16 uur per week, elke maandag en dinsdag werken	40
32u woensdag vrij	32 uur per week, elke woensdag vrij	20
36u om de week vrij	36 uur per week, elke tweede week vrijdag vrij	30
40u	40 uur per week	10

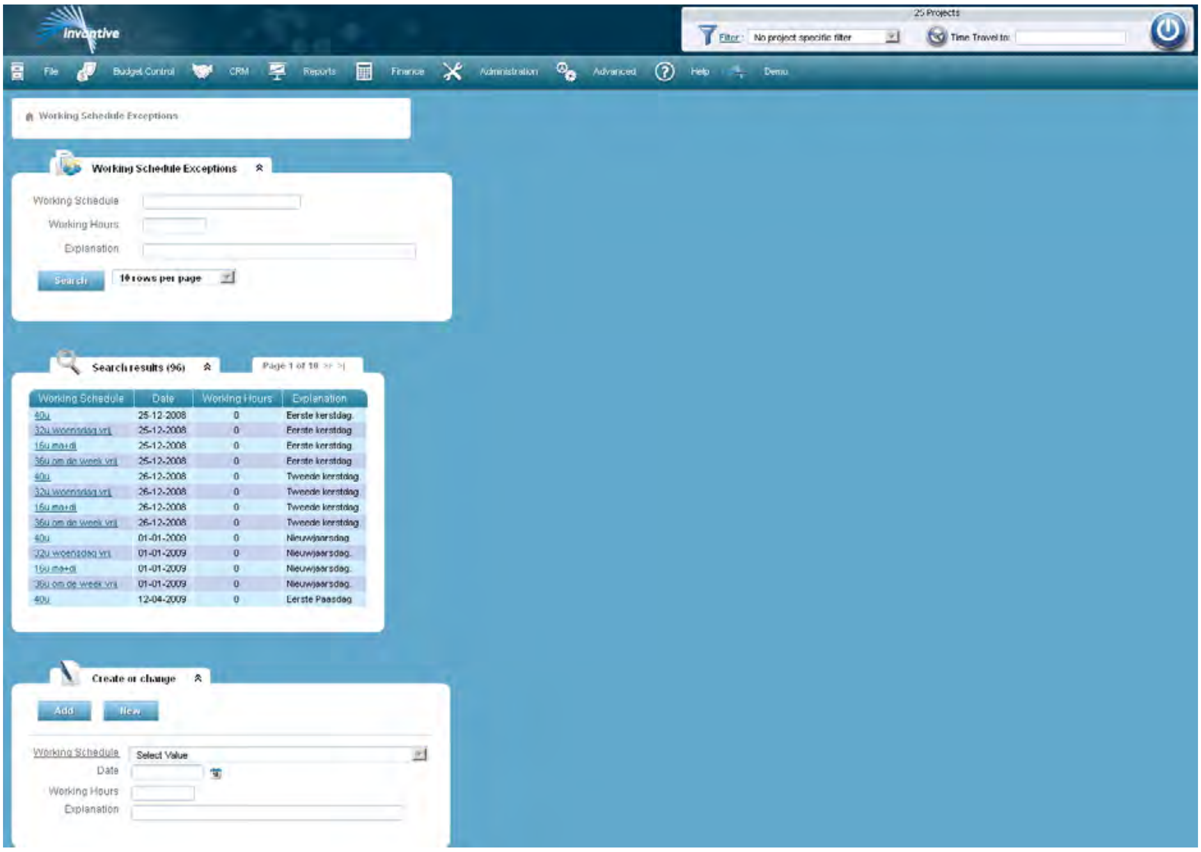
The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the working schedule.
Description	A description of the working schedule.
Sort Order	A numeric value on which the working schedules are sorted when they are shown in a list box in a screen.
Working Hours ... Even	Number of working hours on the even... . 'Even' indicates that the week number is even according to ISO 8601.
Start time ... Even	Start time of the working hours on the even ... . 'Even' indicates that the week number is even according to ISO 8601.
Working Hours ... Odd	Number of working hours on the odd ... 'Odd' indicates that the week number is odd according to ISO 8601.
Start time ... Odd	Start time of the working hours on the odd ... . 'Odd' indicates that the week number is odd according to ISO 8601.

Working-schedule-exceptions

This screen allows you to record exceptions in workflows and change.

A working schedule exception is a different number of working hours on a particular day, for example, on holidays.


Invantive
25 Projects
Filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Working Schedule Exceptions
Working Schedule Exceptions
Working Schedule
Working Hours
Explanation
Search
Search results (96)
Page 1 of 10 >> >|
Create or change
Add
New
Working Schedule
Date
Working Hours
Explanation

Filter: No project specific filter

10 rows per page

Working Schedule	Date	Working Hours	Explanation
40u	25-12-2008	0	Eerste kerstdag.
32u woensdag vrij	25-12-2008	0	Eerste kerstdag
16u ma+di	25-12-2008	0	Eerste kerstdag
36u om de week vrij	25-12-2008	0	Eerste kerstdag
40u	26-12-2008	0	Tweede kerstdag
32u woensdag vrij	26-12-2008	0	Tweede kerstdag
16u ma+di	26-12-2008	0	Tweede kerstdag
36u om de week vrij	26-12-2008	0	Tweede kerstdag
40u	01-01-2009	0	Nieuwjaarsdag
32u woensdag vrij	01-01-2009	0	Nieuwjaarsdag.
16u ma+di	01-01-2009	0	Nieuwjaarsdag.
36u om de week vrij	01-01-2009	0	Nieuwjaarsdag.
40u	12-04-2009	0	Eerste Paasdag

Working Schedule: Select Value

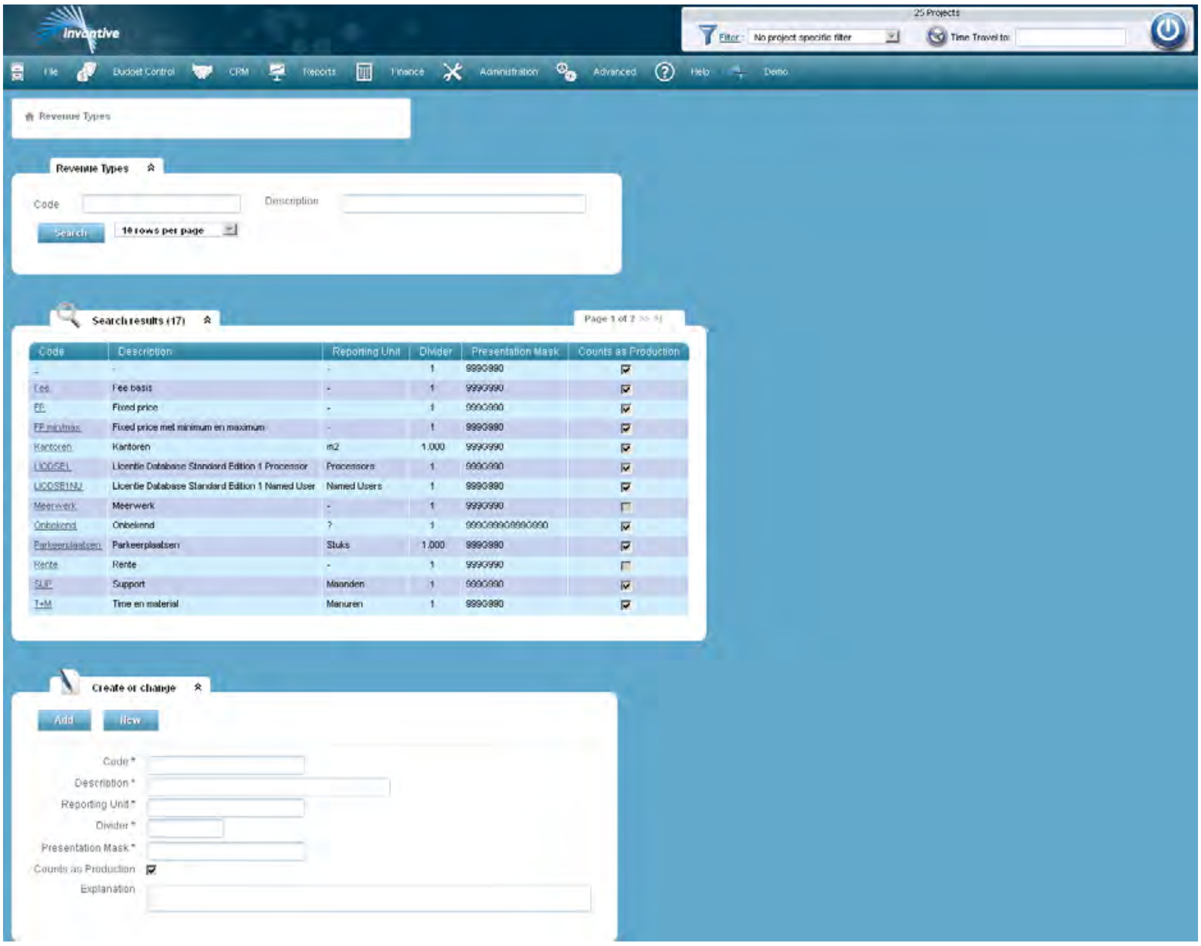
The meaning of the entry fields is:

Working Schedule	Unique alphanumeric code that identifies the working schedule exceptions.
Date	The date on which the working schedule exception applies.
Working Hours	The number of hours that should be worked on the date of the working schedule exception.
Explanation	An explanation of the working schedule exception.

Revenue Types

In this form you can register and change types of revenues.

A revenue type is a subdivision of revenues (see Revenues) 69 based on common characteristics. Revenue types are used to report revenues in, for example, the production overview (see Production Overview) 120.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Revenue Types
Revenue Types
Code
Description
Search
10 rows per page
Search results (17)
Page 1 of 2 >> >|
Create or change
Add
New

Code	Description	Reporting Unit	Divider	Presentation Mask	Counts as Production
-	-	-	1	999G990	☑
Fee	Fee basis	-	1	999G990	☑
FP	Fixed price	-	1	999G990	☑
FP min/max	Fixed price met minimum en maximum	-	1	999G990	☑
Kantoren	Kantoren	m2	1.000	999G990	☑
LICDSE1	Licentie Database Standard Edition 1 Processor	Processors	1	999G990	☑
LICDSE1NU	Licentie Database Standard Edition 1 Named User	Named Users	1	999G990	☑
Meerwerk	Meerwerk	-	1	999G990	☐
Onbekend	Onbekend	?	1	999G999G999G990	☑
Parkeerplaatsen	Parkeerplaatsen	Stuks	1.000	999G990	☑
Rente	Rente	-	1	999G990	☐
SUP	Support	Maanden	1	999G990	☑
T+M	Time en material	Manuren	1	999G990	☑

Code *
Description *
Reporting Unit *
Divider *
Presentation Mask *
Counts as Production ☑
Explanation

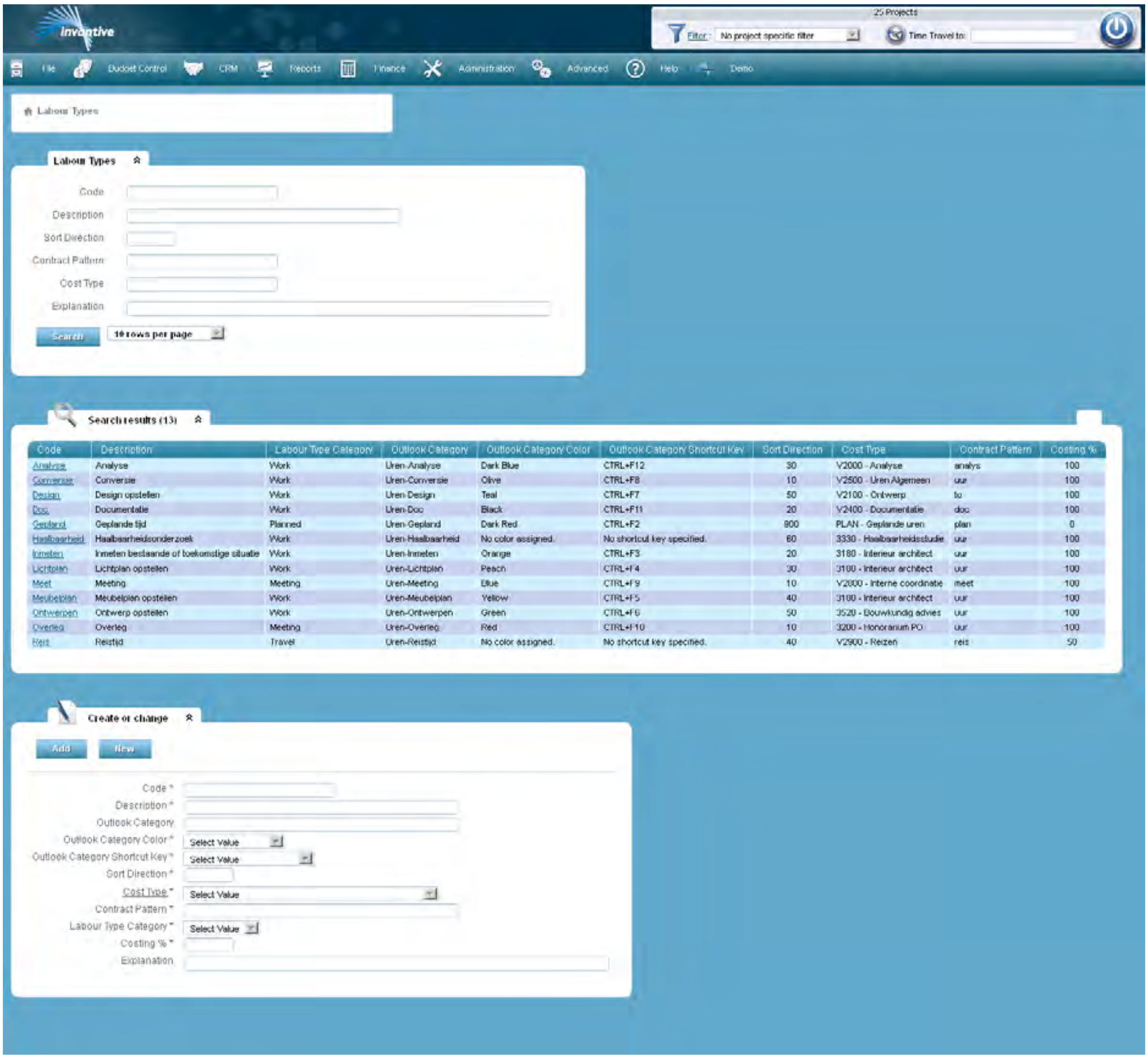
The meaning of the entry fields is:

Code	The code for the revenue type.
Description	The description.
Reporting Unit	The unit in which this type of revenues usually are reported. For example, for houses this will be number, while for office space it will be 'm2'.
Divider	The constant by which the amounts in the reports must be divided in order to end up with the report of this type of revenue.
Presentation mask	A pattern that describes how the number after dividing by the 'divider' has to be displayed. The presentation mask consists of a number of characters, of which each character describes exactly one character in the presentation. The following characters are possible in the presentation mask: • G: the grouping character (in Europe this is a point '.'). • D: the decimal character (in Europe this is a comma ','). • 9: the number at this position before or after the comma, in case before the number at least one other number is placed other than 0. • 0: the number at this position before or after the comma. A presentation mask '990D00' gives the following results: • '12.3' will become '12.30' • '0' will become '0.00'
Counts as Production	A revenue counts as production in the production overview in case this field is checked.
Explanation	Possible explanation.

Labor Types

This screen lets you record and edit work types.

A labor type is a type of work that can be performed by an employee and that will be treated distinctively for invoicing or analysis.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Labour Types
Labour Types
Code
Description
Sort Direction
Contract Pattern
Cost Type
Explanation
Search
10 rows per page
Search results (13)
Create or change
Add
New
Code *
Description *
Outlook Category
Outlook Category Color *
Outlook Category Shortcut Key *
Sort Direction *
Cost Type *
Contract Pattern *
Labour Type Category *
Costing % *
Explanation
Select Value

Code	Description	Labour Type Category	Outlook Category	Outlook Category Color	Outlook Category Shortcut Key	Sort Direction	Cost Type	Contract Pattern	Costing %
Analyse	Analyse	Work	Uren-Analyse	Dark Blue	CTRL+F12	30	V2000 - Analyse	analys	100
Conversie	Conversie	Work	Uren-Conversie	Olive	CTRL+F8	10	V2500 - Uren Algemeen	uur	100
Design	Design opstellen	Work	Uren-Design	Teal	CTRL+F7	50	V2100 - Ontwerp	to	100
Doc	Documentatie	Work	Uren-Doc	Black	CTRL+F11	20	V2400 - Documentatie	doc	100
Gepland	Geplande tijd	Planned	Uren-Gepland	Dark Red	CTRL+F2	800	PLAN - Geplande uren	plan	0
Haalbaarheid	Haalbaarheidsonderzoek	Work	Uren-Haalbaarheid	No color assigned.	No shortcut key specified.	60	3330 - Haalbaarheidsstudie	uur	100
Inmeten	Inmeten bestaande of toekomstige situatie	Work	Uren-Inmeten	Orange	CTRL+F3	20	3180 - Interieur architect	uur	100
Lichtplan	Lichtplan opstellen	Work	Uren-Lichtplan	Peach	CTRL+F4	30	3100 - Interieur architect	uur	100
Meet	Meeting	Meeting	Uren-Meeting	Blue	CTRL+F9	10	V2000 - Interne coordinatie	meet	100
Meubelplan	Meubelplan opstellen	Work	Uren-Meubelplan	Yellow	CTRL+F5	40	3100 - Interieur architect	uur	100
Ontwerpen	Ontwerp opstellen	Work	Uren-Ontwerpen	Green	CTRL+F6	50	3520 - Bouwkundig advies	uur	100
Overleg	Overleg	Meeting	Uren-Overleg	Red	CTRL+F10	10	3200 - Honorarium PO	uur	100
Reis	Reistijd	Travel	Uren-Reistijd	No color assigned.	No shortcut key specified.	40	V2900 - Reizen	reis	50

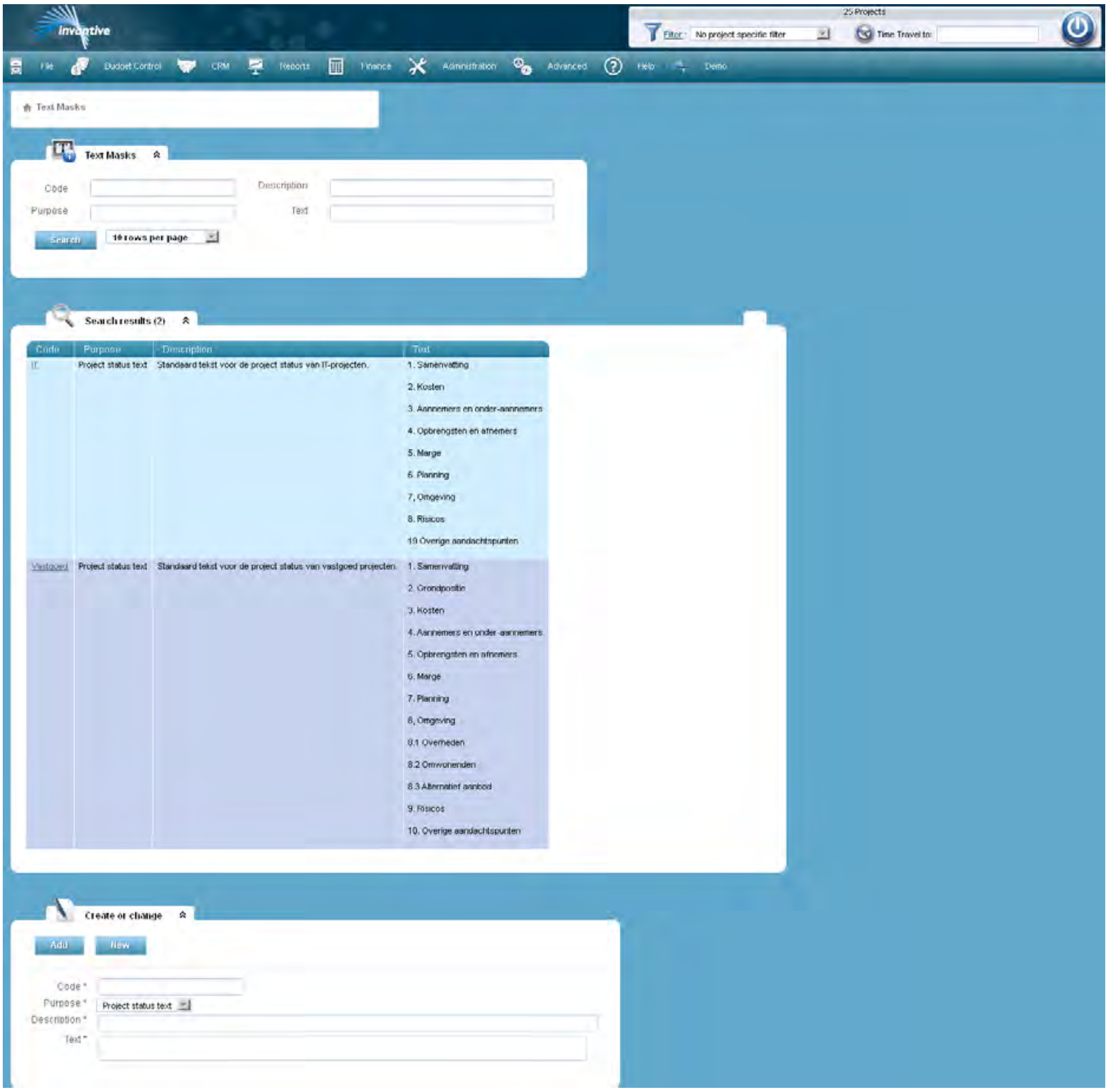
The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the labor type.
Description	Description of the labor type.
Outlook Category	The category in Microsoft Outlook for this labor type.
Outlook Category Color	The category color that is used when this labour type is automatically created in Microsoft Outlook.
Outlook Category Shortcut Key	The shortcut key that can be used for this labor type in case this labor type is automatically created in Microsoft Outlook.
Sort Order	A numeric value on which the labor types are sorted when they are shown in a list box in a screen.
Cost Type	Reference to a cost category as registered in Cost Categories 189. The cost of hours made for the project can be booked on this cost category.
Contract Pattern	Contract pattern code associated with this labour type. In this pattern, placeholders are replaced by actuals during cost accounting. The following placeholders are supported: ':gbr_initialen', ':vandaag', ':pjt_code', ':wst_code', ':gbr_naam', ':uur_yyyy_start', ':uur_mm_start and ':uur_dd_start.
Labor Type Category	Classification of labour types to labour type categories, for example 'meeting', 'travel', 'work', etc..
Costing %	The size of costs posting is calculated by multiplying the cost percentage with the internal tariff from the person or machine.
Explanation	Remarks on the use of 'labor type'.

Text Masks

In this form you can register and change text masks.

A text mask is a text element used, for example, to serve as standard setting for a project status report.



Invantive
25 Projects
Filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Text Masks
Text Masks
Code
Description
Purpose
Text
Search
Search results (2)
Create or change
Add
New
Code *
Description *
Text *

Filter: No project specific filter

10 rows per page

Code	Purpose	Description	Text
IT	Project status text	Standaard tekst voor de project status van IT-projecten.	1. Samenvatting 2. Kosten 3. Aannemers en onder-aannemers 4. Opbrengsten en afnemers 5. Marge 6. Planning 7, Omgeving 8. Risicos 19 Overige aandachtspunten
Vastgoed	Project status text	Standaard tekst voor de project status van vastgoed projecten.	1. Samenvatting 2. Grondpositie 3. Kosten 4. Aannemers en onder-aannemers 5. Opbrengsten en afnemers 6. Marge 7. Planning 8, Omgeving 8.1 Overheden 8.2 Omwonenden 8.3 Alternatief aanbod 9. Risicos 10. Overige aandachtspunten

Purpose * Project status text

The meaning of the entry fields is:

Code	The unique code within the scope for the text mask.
Application	The text masks are subdivided in several series for different scopes. Per scope there is a purpose available.
Description	The description of the text mask.
Text	The text of the text mask.

1.2.7.3 Financial

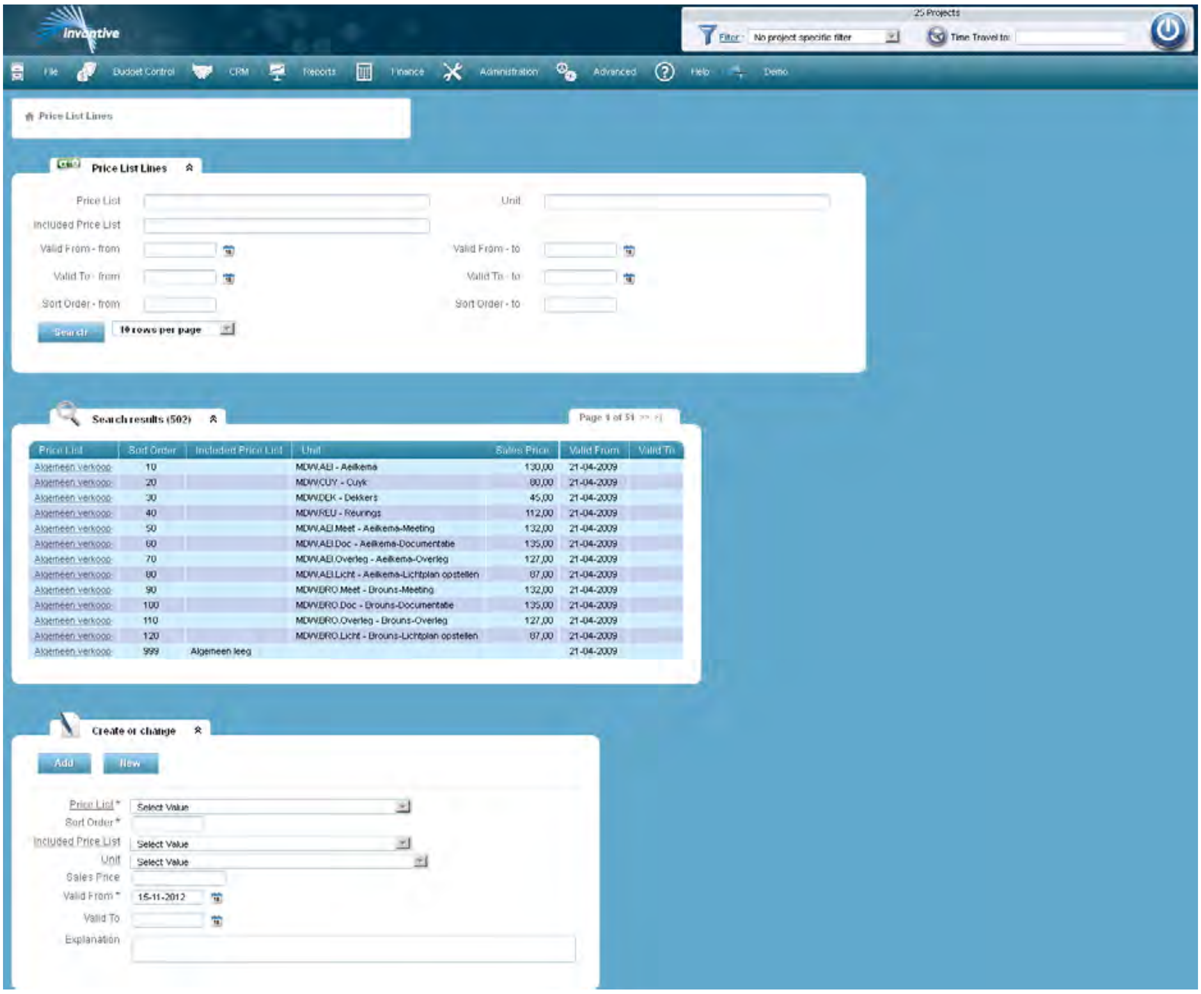
This chapter describes the screens and reports relating to the financial part of a project or organization.

Prices

Enter text here.

Price List Lines

In this screen you can register and change price list rules.


25 Projects
Filter
No project specific filter
Time Travel to
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Price List Lines
Price List Lines
Price List
Unit
Included Price List
Valid From - from
Valid From - to
Valid To - from
Valid To - to
Sort Order - from
Sort Order - to
Search
10 rows per page
Search results (502)
Page 1 of 51
Create or change
Add
New
Price List *
Select Value
Sort Order *
Included Price List
Select Value
Unit
Select Value
Sales Price
Valid From *
Valid To
Explanation

Price List	Sort Order	Included Price List	Unit	Sales Price	Valid From	Valid To
Algemeen verkoop	10		MDW.AEI - Aeilkema	130,00	21-04-2009	
Algemeen verkoop	20		MDW.CUY - Cuyk	80,00	21-04-2009	
Algemeen verkoop	30		MDW.DEK - Dekkers	45,00	21-04-2009	
Algemeen verkoop	40		MDW.REU - Reurings	112,00	21-04-2009	
Algemeen verkoop	50		MDW.AEI.Meet - Aeilkema-Meeting	132,00	21-04-2009	
Algemeen verkoop	60		MDW.AEI.Doc - Aeilkema-Documentatie	135,00	21-04-2009	
Algemeen verkoop	70		MDW.AEI.Overleg - Aeilkema-Overleg	127,00	21-04-2009	
Algemeen verkoop	80		MDW.AEI.Licht - Aeilkema-Lichtplan opstellen	87,00	21-04-2009	
Algemeen verkoop	90		MDW.BRO.Meet - Brouns-Meeting	132,00	21-04-2009	
Algemeen verkoop	100		MDW.BRO.Doc - Brouns-Documentatie	135,00	21-04-2009	
Algemeen verkoop	110		MDW.BRO.Overleg - Brouns-Overleg	127,00	21-04-2009	
Algemeen verkoop	120		MDW.BRO.Licht - Brouns-Lichtplan opstellen	87,00	21-04-2009	
Algemeen verkoop	999	Algemeen leeg			21-04-2009	

Valid From * 15-11-2012

The meaning of the entry fields is:

Price List	Reference to a Price List 180.
Sort Order	A numeric value used for checking the 'price list rules' to determine the price per unit.
Included Price List	Reference to a price list as registered in Price Lists 180 and which is included in this 'price list rule'.
Unit	Reference to a Unit 151.
Sale Price	Price of sale of the Unit 151.
Valid From	The system date on which the 'price rule' becomes valid.
Valid To	The system date on which the 'price rule' validity ends.

Price Lists

In this screen you can register and change price lists.

A price list has - just like Menus 224 - a tree structure, consisting of a set of prices for Units 151 and other price lists. Price lists can therefore be built with other price lists.

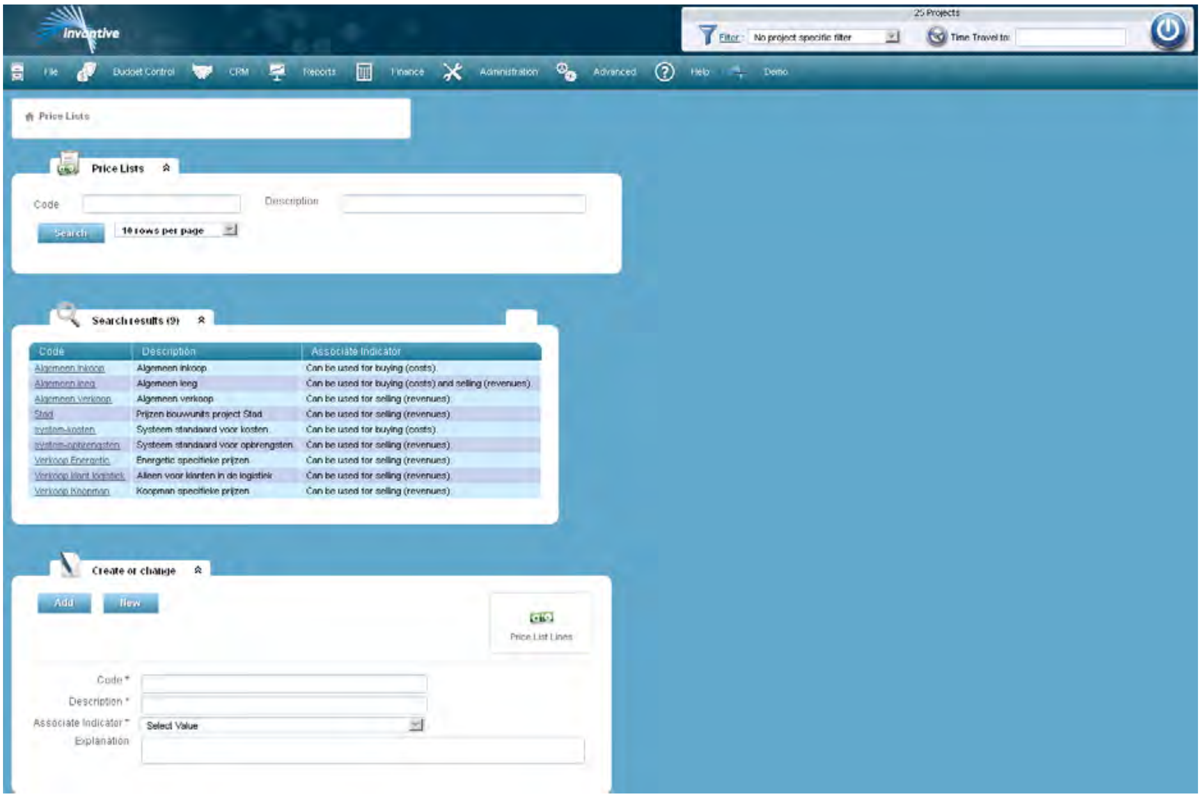
Example 1:
Price list sales products: PC € 100,--
Price list sales hours: 1 hour Aeilkema = € 70,--

Price list sales general:

1) sales products.
2) sales hours.

Example 2:
Price list sales glass domes: 1.5m X 1.5m = € 226, --
Price list rental trailers: 1 day € 250
Price list rental platforms: daily price € 148.50

Price list sales general:
1) sales glass domes.
2) rental trailers.
3) rental platforms.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Price Lists
Price Lists
Code
Description
Search
10 rows per page
Search results (9)
Create or change
Add
New
Price List Lines
Code *
Description *
Associate Indicator *
Select Value
Explanation

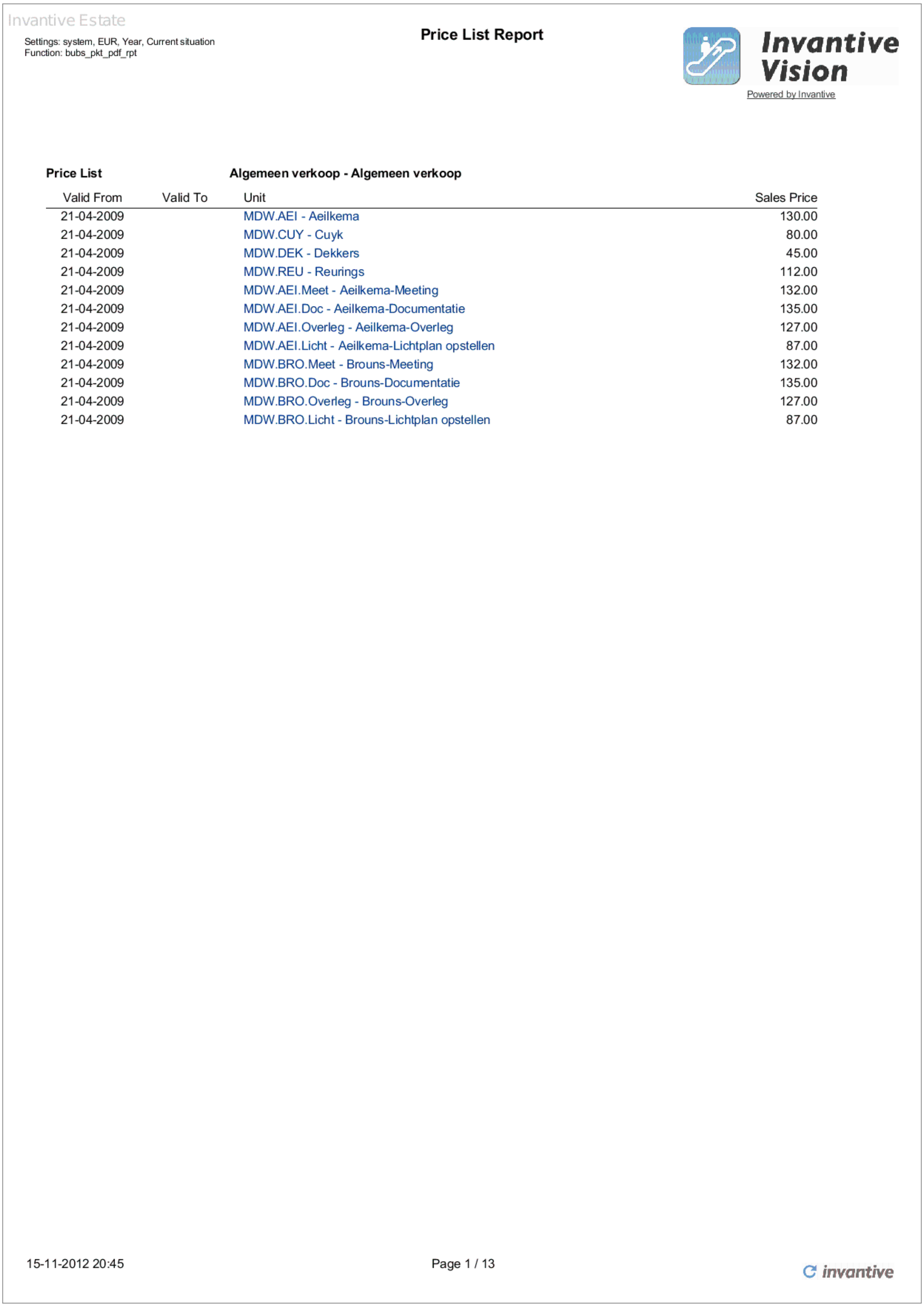
Code	Description	Associate Indicator
Algemeen inkoop	Algemeen inkoop	Can be used for buying (costs).
Algemeen leeg	Algemeen leeg	Can be used for buying (costs) and selling (revenues).
Algemeen verkoop	Algemeen verkoop	Can be used for selling (revenues).
Stad	Prijzen bouwunits project Stad	Can be used for selling (revenues).
systeem-kosten	Systeem standaard voor kosten	Can be used for buying (costs).
systeem-opbrengsten	Systeem standaard voor opbrengsten	Can be used for selling (revenues).
Verkoop Energetic	Energetic specifieke prijzen	Can be used for selling (revenues).
Verkoop klant logistiek	Alleen voor klanten in de logistiek	Can be used for selling (revenues).
Verkoop Koopman	Koopman specifieke prijzen	Can be used for selling (revenues).

The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the price list.
Description	Description of the price list.
Associate Indicator	Indicator which shows how the price list can be used.
Explanation	Possible explanation.

Price List Report

This report allows you to request Price Lists 180.



Invantive Estate

Settings: system, EUR, Year, Current situation
Function: bubs_pkt_pdf_rpt

Price List Report

Invantive Vision
Powered by Invantive

Price List **Algemeen verkoop - Algemeen verkoop**

Valid From	Valid To	Unit	Sales Price
21-04-2009		MDW.AEI - Aeilkema	130.00
21-04-2009		MDW.CUY - Cuyk	80.00
21-04-2009		MDW.DEK - Dekkers	45.00
21-04-2009		MDW.REU - Reurings	112.00
21-04-2009		MDW.AEI.Meet - Aeilkema-Meeting	132.00
21-04-2009		MDW.AEI.Doc - Aeilkema-Documentatie	135.00
21-04-2009		MDW.AEI.Overleg - Aeilkema-Overleg	127.00
21-04-2009		MDW.AEI.Licht - Aeilkema-Lichtplan opstellen	87.00
21-04-2009		MDW.BRO.Meet - Brouns-Meeting	132.00
21-04-2009		MDW.BRO.Doc - Brouns-Documentatie	135.00
21-04-2009		MDW.BRO.Overleg - Brouns-Overleg	127.00
21-04-2009		MDW.BRO.Licht - Brouns-Lichtplan opstellen	87.00

15-11-2012 20:45 Page 1 / 13

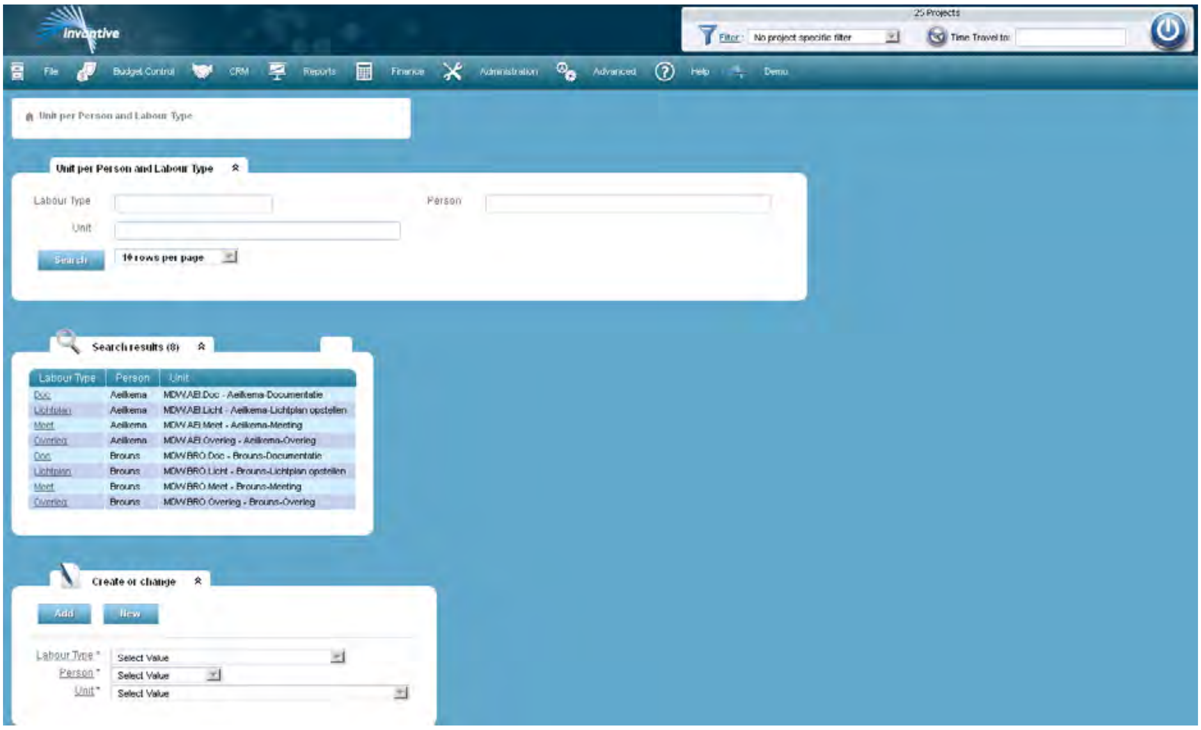
invantive

Unit per Person and Labor Type

In this screen 'unit per person and type of work "are recorded and changed.

The determination of the selling price of a person is based on the unit related to the person.

For certain labor types, a different unit (and therefore different price) can be registered here. For example: a director sometimes performs a ‘cheap’ labor type.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Unit per Person and Labour Type
Unit per Person and Labour Type
Search
10 rows per page
Search results (8)
Create or change
Add
New

Labour Type
Person
Unit

Labour Type	Person	Unit
Doc	Aeilkema	MDW.AEI.Doc - Aeilkema-Documentatie
Lichtplan	Aeilkema	MDW.AEI.Licht - Aeilkema-Lichtplan opstellen
Meet	Aeilkema	MDW.AEI.Meet - Aeilkema-Meeting
Overig	Aeilkema	MDW.AEI.Overig - Aeilkema-Overig
Doc	Brouns	MDW.BRO.Doc - Brouns-Documentatie
Lichtplan	Brouns	MDW.BRO.Licht - Brouns-Lichtplan opstellen
Meet	Brouns	MDW.BRO.Meet - Brouns-Meeting
Overig	Brouns	MDW.BRO.Overig - Brouns-Overig

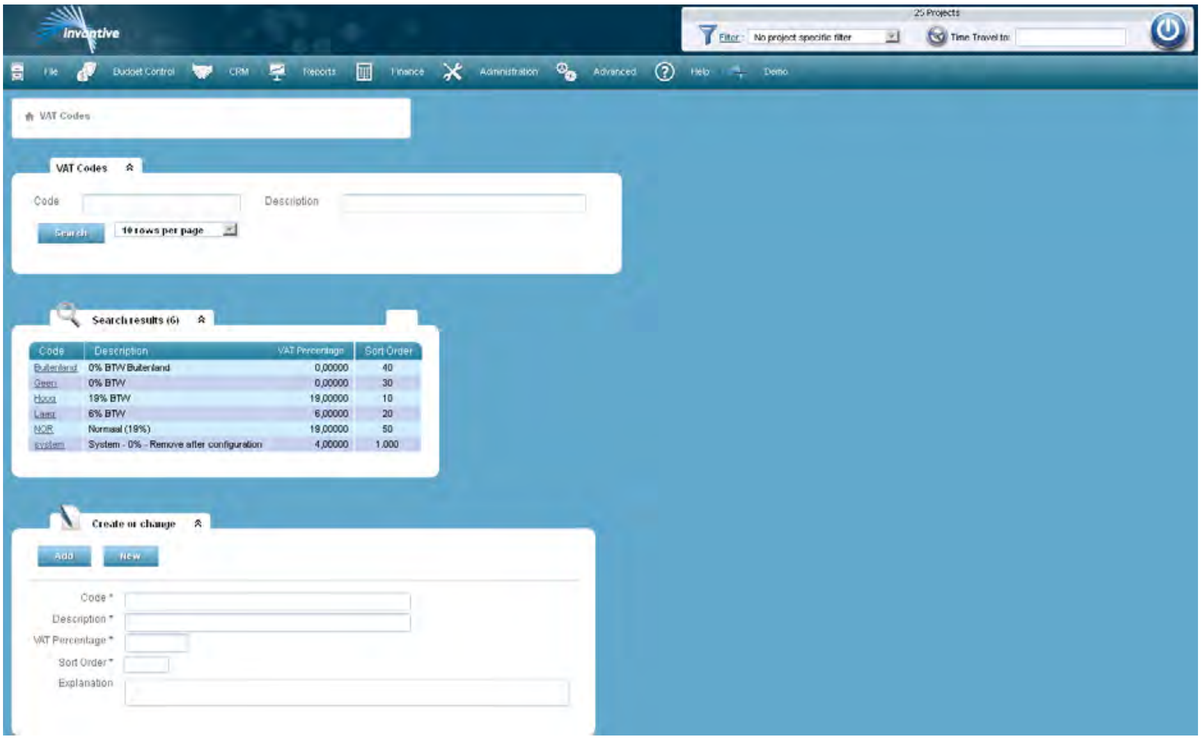
Labour Type * Select Value
Person * Select Value
Unit * Select Value

The meaning of the entry fields is:

Labor Type	Reference to a Labor Type 177.
Name	Reference to a Person 97.
Unit	Reference to a Unit 151.

VAT Codes

In this screen you can register and change VAT codes.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
VAT Codes
VAT Codes
Search
10 rows per page
Search results (6)
Create or change
Add
New

Code
Description

Code	Description	VAT Percentage	Sort Order
Buitenland	0% BTW Buitenland	0,00000	40
Geen	0% BTW	0,00000	30
Hoog	19% BTW	19,00000	10
Laag	6% BTW	6,00000	20
NOR	Normaal (19%)	19,00000	50
system	System - 0% - Remove after configuration	4,00000	1.000

Code *
Description *
VAT Percentage *
Sort Order *
Explanation

The meaning of the entry fields is:

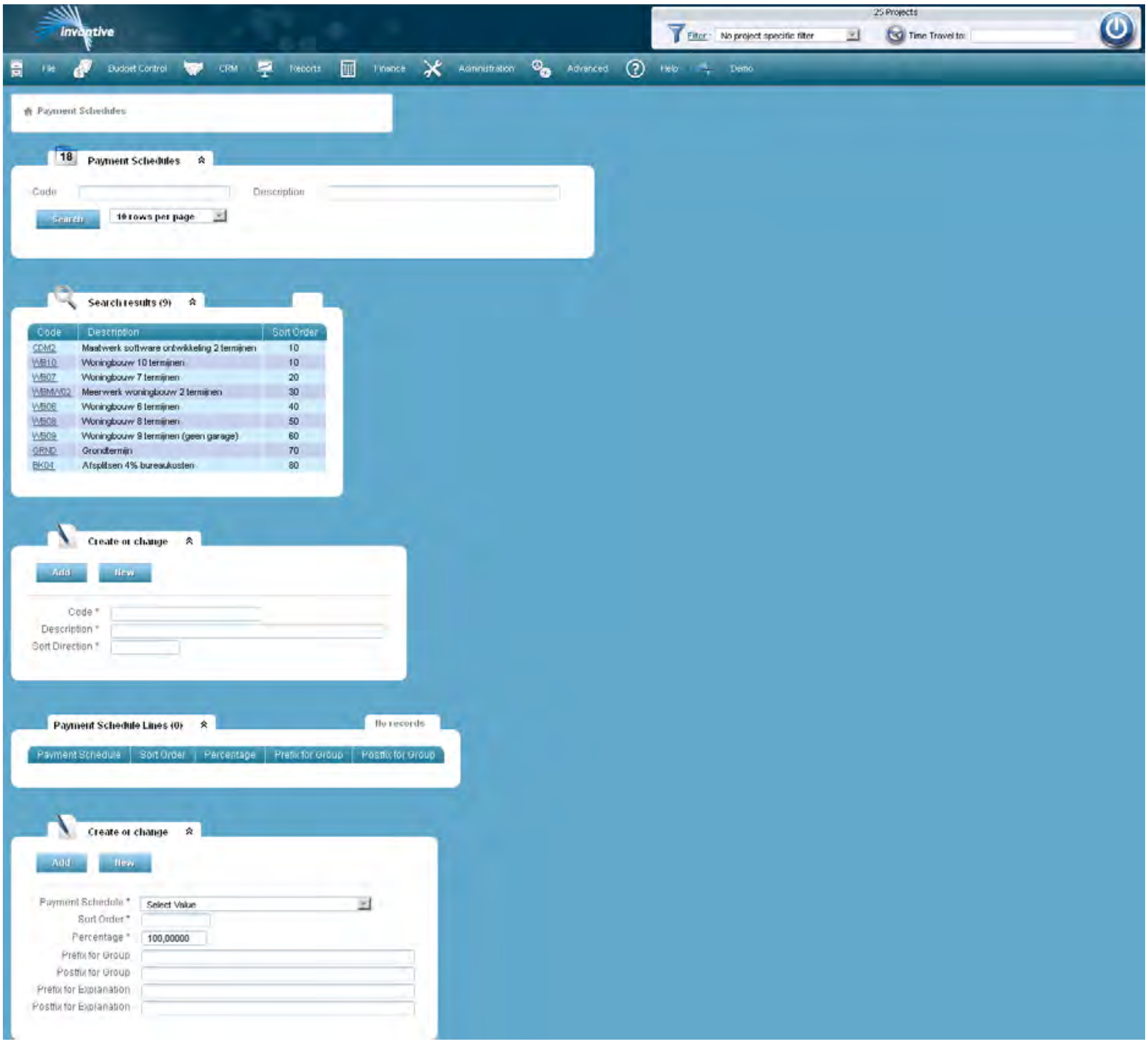
Code	Unique alphanumeric code that identifies the VAT code.
Description	Omschrijving van de BTW-code.
VAT Percentage	The VAT percentage.
Sort Order	A numeric value on which the VAT codes are sorted when they are shown in a list box in a screen.

Banks

Enter text here.

Payment Schedules

In this screen Payment Schedules can be registered and edited.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Payment Schedules
18
Payment Schedules
Code
Description
Search
10 rows per page
Search results (9)
Create or change
Add
New
Code *
Description *
Sort Direction *
Payment Schedule Lines (0)
No records
Payment Schedule
Sort Order
Percentage
Prefix for Group
Postfix for Group
Create or change
Add
New
Payment Schedule *
Sort Order *
Percentage *
Prefix for Group
Postfix for Group
Prefix for Explanation
Postfix for Explanation

Code	Description	Sort Order
CDM2	Maatwerk software ontwikkeling 2 termijnen	10
WB10	Woningbouw 10 termijnen	10
WB07	Woningbouw 7 termijnen	20
WBMW02	Meerwerk woningbouw 2 termijnen	30
WB06	Woningbouw 6 termijnen	40
WB08	Woningbouw 8 termijnen	50
WB09	Woningbouw 9 termijnen (geen garage)	60
GRND	Grondtermijn	70
BK04	Afsplitsen 4% bureaukosten	80

Payment Schedule * Select Value

Percentage * 100,00000

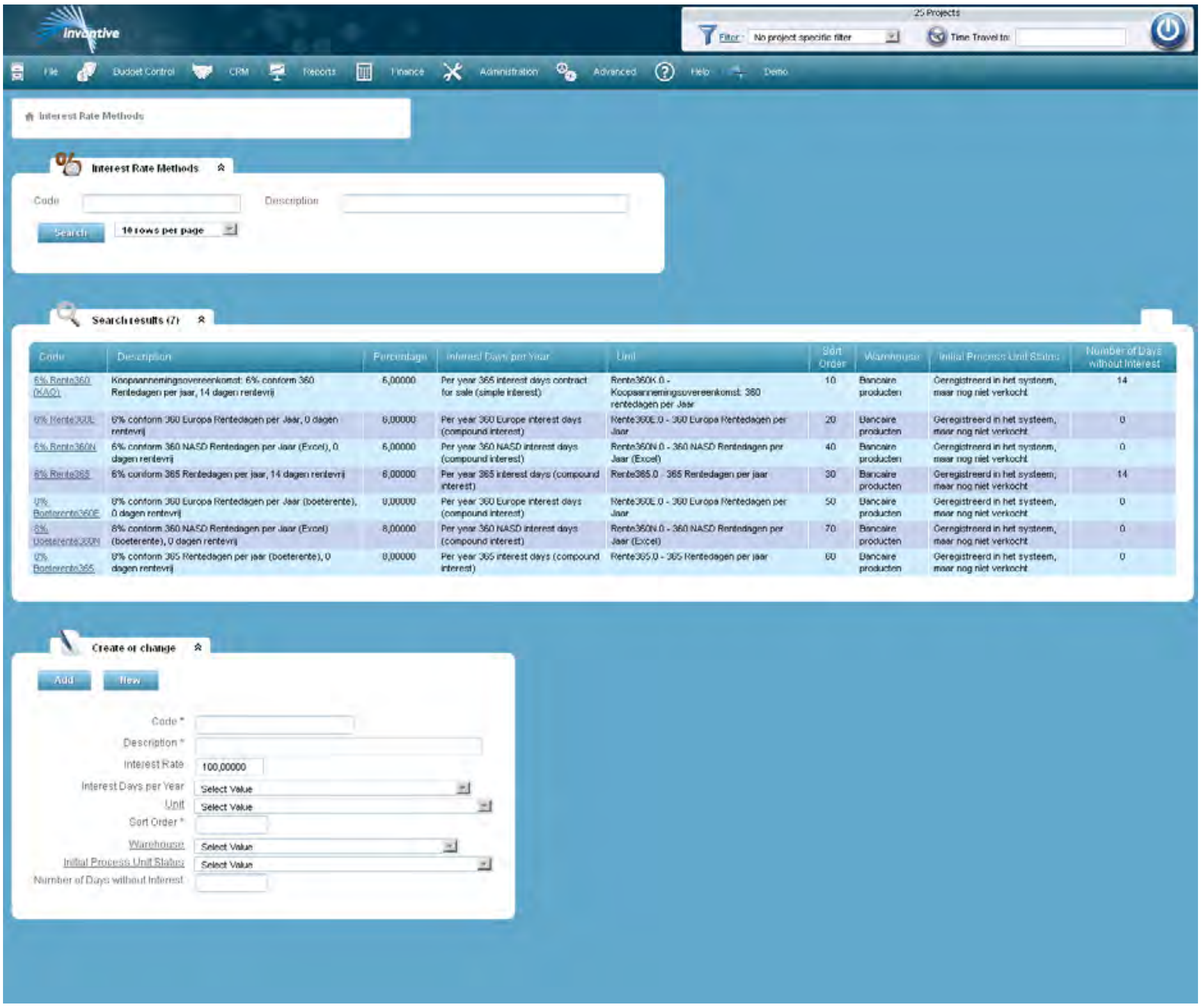
The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the payment schedule.
Description	Description of the payment schedule.
Sort Order	A numeric value on which the payment schedules are sorted when they are shown in a list box in a screen.
Payment Schedule Lines	

Payment Schedule	
Sort Order	
Percentage	
Prefix for Group	
Postfix for Group	
Prefix for Explanation	
Postfix for Explanation	

Interest Rate Methods

In this screen Interest Rate Methods can be registered and edited.



Code	Description	Percentage	Interest Days per Year	Unit	Sort Order	Warehouse	Initial Process Unit Status	Number of Days without Interest
6% Rente360 (KAO)	Koopaannemingsovereenkomst: 6% conform 360 Rentedagen per jaar, 14 dagen rentevrij	6,00000	Per year 365 interest days contract for sale (simple interest)	Rente360K.0 - Koopaannemingsovereenkomst: 360 rentedagen per Jaar	10	Bancaire producten	Geregistreerd in het systeem, maar nog niet verkocht	14
6% Rente360E	6% conform 360 Europa Rentedagen per Jaar, 0 dagen rentevrij	6,00000	Per year 360 Europe interest days (compound interest)	Rente360E.0 - 360 Europa Rentedagen per Jaar	20	Bancaire producten	Geregistreerd in het systeem, maar nog niet verkocht	0
6% Rente360N	6% conform 360 NASD Rentedagen per Jaar (Excel), 0 dagen rentevrij	6,00000	Per year 360 NASD interest days (compound interest)	Rente360N.0 - 360 NASD Rentedagen per Jaar (Excel)	40	Bancaire producten	Geregistreerd in het systeem, maar nog niet verkocht	0
6% Rente365	6% conform 365 Rentedagen per jaar, 14 dagen rentevrij	6,00000	Per year 365 interest days (compound interest)	Rente365.0 - 365 Rentedagen per jaar	30	Bancaire producten	Geregistreerd in het systeem, maar nog niet verkocht	14
0% Boeterente360E	0% conform 360 Europa Rentedagen per Jaar (boeterente), 0 dagen rentevrij	0,00000	Per year 360 Europe interest days (compound interest)	Rente360E.0 - 360 Europa Rentedagen per Jaar	50	Bancaire producten	Geregistreerd in het systeem, maar nog niet verkocht	0
8% Boeterente360N	8% conform 360 NASD Rentedagen per Jaar (Excel) (boeterente), 0 dagen rentevrij	8,00000	Per year 360 NASD interest days (compound interest)	Rente360N.0 - 360 NASD Rentedagen per Jaar (Excel)	70	Bancaire producten	Geregistreerd in het systeem, maar nog niet verkocht	0
0% Boeterente365	0% conform 365 Rentedagen per jaar (boeterente), 0 dagen rentevrij	0,00000	Per year 365 interest days (compound interest)	Rente365.0 - 365 Rentedagen per jaar	60	Bancaire producten	Geregistreerd in het systeem, maar nog niet verkocht	0

Code *	
Description *	
Interest Rate	100,00000
Interest Days per Year	Select Value
Unit	Select Value
Sort Order *	
Warehouse	Select Value
Initial Process Unit Status	Select Value
Number of Days without Interest	

The meaning of the entry fields is:

Code	Unique alphanumerical code that identifies the interest rate method.
Description	Description of the interest rate method.
Interest	Effective annual interest.
Interest Days Per Year	Indicated the number of days per year that are used for the interest rate method, like 360 NASD or 365 days per year.
Unit	Reference to a unit as registered in Units 151.

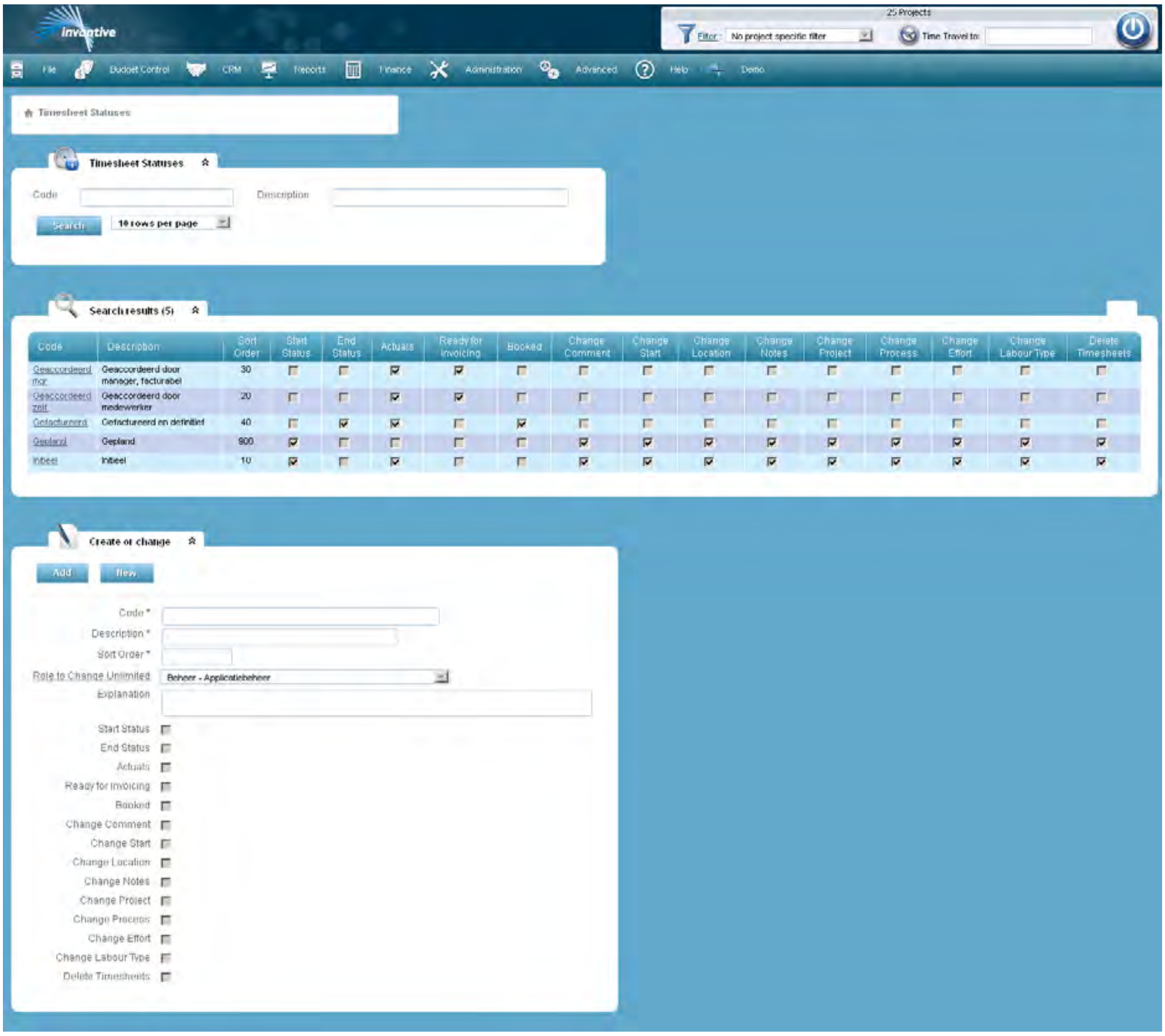
Sort Order	A numeric value on which the interest rate methods are sorted when they are shown in a list box in a screen.
Stock	Reference to a warehouse as registered in Warehouses 204.
Initial Process Unit Status	Reference to a process unit status as registered in BUBS_TAK_UNT_STATUSSEN in a role as the old status of the process task unit.
Number of days without Interest	Number of days you substract from the period for which interest is calculated.

Hours

Enter text here.

Timesheet Statuses

In this screen you can register and timesheet statuses.



Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Timesheet Statuses
Timesheet Statuses
Code
Description
Search
10 rows per page
Search results (5)
Create or change
Add
New

Code	Description	Sort Order	Start Status	End Status	Actuals	Ready for Invoicing	Booked	Change Comment	Change Start	Change Location	Change Notes	Change Project	Change Process	Change Effort	Change Labour Type	Delete Timesheets
Geaccordeerd mgr	Geaccordeerd door manager, facturabel	30	☐	☐	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Geaccordeerd zelf	Geaccordeerd door medewerker	20	☐	☐	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Gefactureerd	Gefactureerd en definitief	40	☐	☑	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐
Gepland	Gepland	900	☑	☐	☐	☐	☐	☑	☑	☑	☑	☑	☑	☑	☑	☑
Inbeel	Inbeel	10	☑	☐	☑	☐	☐	☑	☑	☑	☑	☑	☑	☑	☑	☑

Code *
Description *
Sort Order *
Role to Change Unlimited: Beheer - Applicatiebeheer
Explanation
Start Status ☐
End Status ☐
Actuals ☐
Ready for invoicing ☐
Booked ☐
Change Comment ☐
Change Start ☐
Change Location ☐
Change Notes ☐
Change Project ☐
Change Process ☐
Change Effort ☐
Change Labour Type ☐
Delete Timesheets ☐

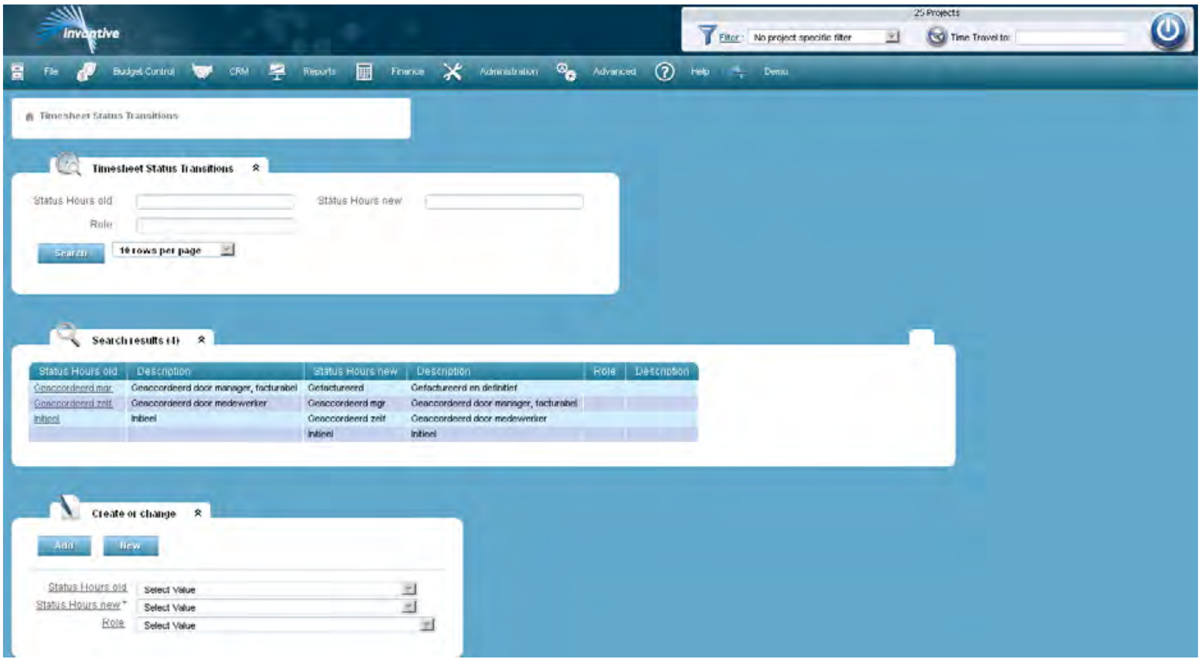
The meaning of the entry fields is:

Code	Unique code that identifies the 'Timesheet Status'.
Description	Description of the 'Timesheet Status'.
Sort Order	A numeric value on which the 'timesheet statuses' are sorted when they are shown in a list box in a screen.
Role to Change Unlimited	Reference to a role as registered in Roles 158. Shows the role that a user must have - despite the change and disposition of the flags - still able to edit hours with this status.
Explanation	Possible explanation.

Start status	Indicator which indicates if it is a 'start status' of the hours.
End Status	Indicator which indicates if it is an 'end status' of the hours.
Actuals	Indicates if it concerns the realised hours and not the planned hours.
Ready for Invoicing	Indicator of whether the hours are ready for invoicing.
Booked	Indicator indicating if the hours are invoiced and booked.
Change Comment	Indicator if it is allowed to change the comments.
Change Start	Indicator if it is allowed to change the start date.
Change Location	Indicator if it is allowed to change location.
Change Notes	Indicator if it is allowed to change the notes.
Change Project	Indicator if it is allowed to change the project code.
Change Process	Indicates if the process code may be modified.
Change Effort	Indicator if it is allowed to change the number of working hours.
Change Labor Type	Indicator if it is allowed to change the Labor Type 177.
Delete Timesheets	Indicates if it is possible to delete hours.

Timesheet Status Transitions

In this screen you can register and change 'timesheet status transitions'.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Timesheet Status Transitions
Timesheet Status Transitions
Status Hours old
Status Hours new
Role
Search
10 rows per page
Search results (4)
Create or change
Add
New

Status Hours old	Description	Status Hours new	Description	Role	Description
Geaccordeerd mgr	Geaccordeerd door manager, facturabel	Gefactureerd	Gefactureerd en definitief		
Geaccordeerd zelf	Geaccordeerd door medewerker	Geaccordeerd mgr	Geaccordeerd door manager, facturabel		
Initieel	Initieel	Geaccordeerd zelf	Geaccordeerd door medewerker		
		Initieel	Initieel		

Status Hours old: Select Value
Status Hours new *: Select Value
Role: Select Value

The meaning of the entry fields is:

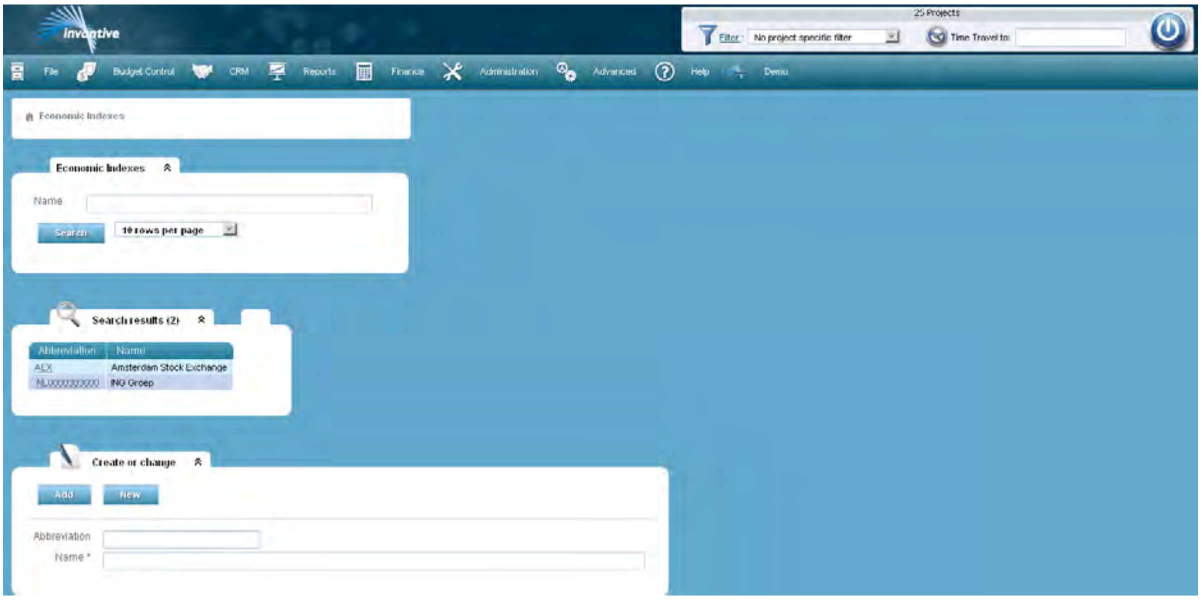
Status Hours Old	Unique code that identifies the 'Status Hours Old'.
Status Hours New	Unique code that identifies the 'Status Hours New'.
Role	Reference to a role as registered in Roles 158. Shows the role that is required to make a specific hour status transition.

Economic Indexes

Enter text here.

Economic Indexes

In this screen, 'economic indexes' can be .registered and changed. In economics, indexes are often used as an indicator of the state of the economy (the general economic situation) or as an indicator for a part of the economy.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Economic Indexes
Economic Indexes
Name
Search
10 rows per page
Search results (2)
Create or change
Add
New
Abbreviation
Name *

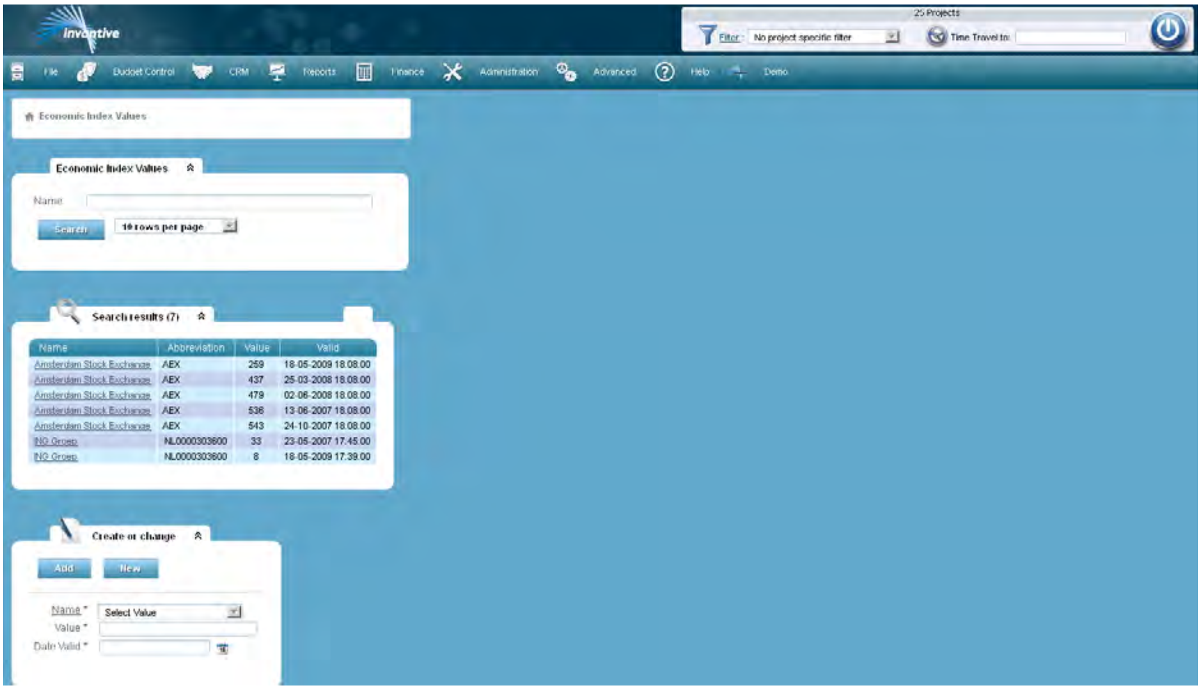
Abbreviation	Name
AEX	Amsterdam Stock Exchange
NL0000303600	ING Groep

The meaning of the entry fields is:

Name	The name of the ‘economic index’.
Abbreviation	The abbreviation of the ‘economic index’.

Economic Index Values

In this screen 'economic index values' can be registered and changed.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Economic Index Values
Economic Index Values
Name
Search
10 rows per page
Search results (7)
Create or change
Add
New
Name *
Select Value
Value *
Date Valid *

Name	Abbreviation	Value	Valid
Amsterdam Stock Exchange	AEX	259	18-05-2009 18:08:00
Amsterdam Stock Exchange	AEX	437	25-03-2008 18:08:00
Amsterdam Stock Exchange	AEX	479	02-06-2008 18:08:00
Amsterdam Stock Exchange	AEX	536	13-06-2007 18:08:00
Amsterdam Stock Exchange	AEX	543	24-10-2007 18:08:00
ING Groep	NL0000303600	33	23-05-2007 17:45:00
ING Groep	NL0000303600	8	18-05-2009 17:39:00

The meaning of the entry fields is:

Name	The name of the ‘economic index’.
Value	The value of the ‘economic index’.
Date Valid	The date on which the ‘economic index’ had this value.

Cost Type

Enter text here.

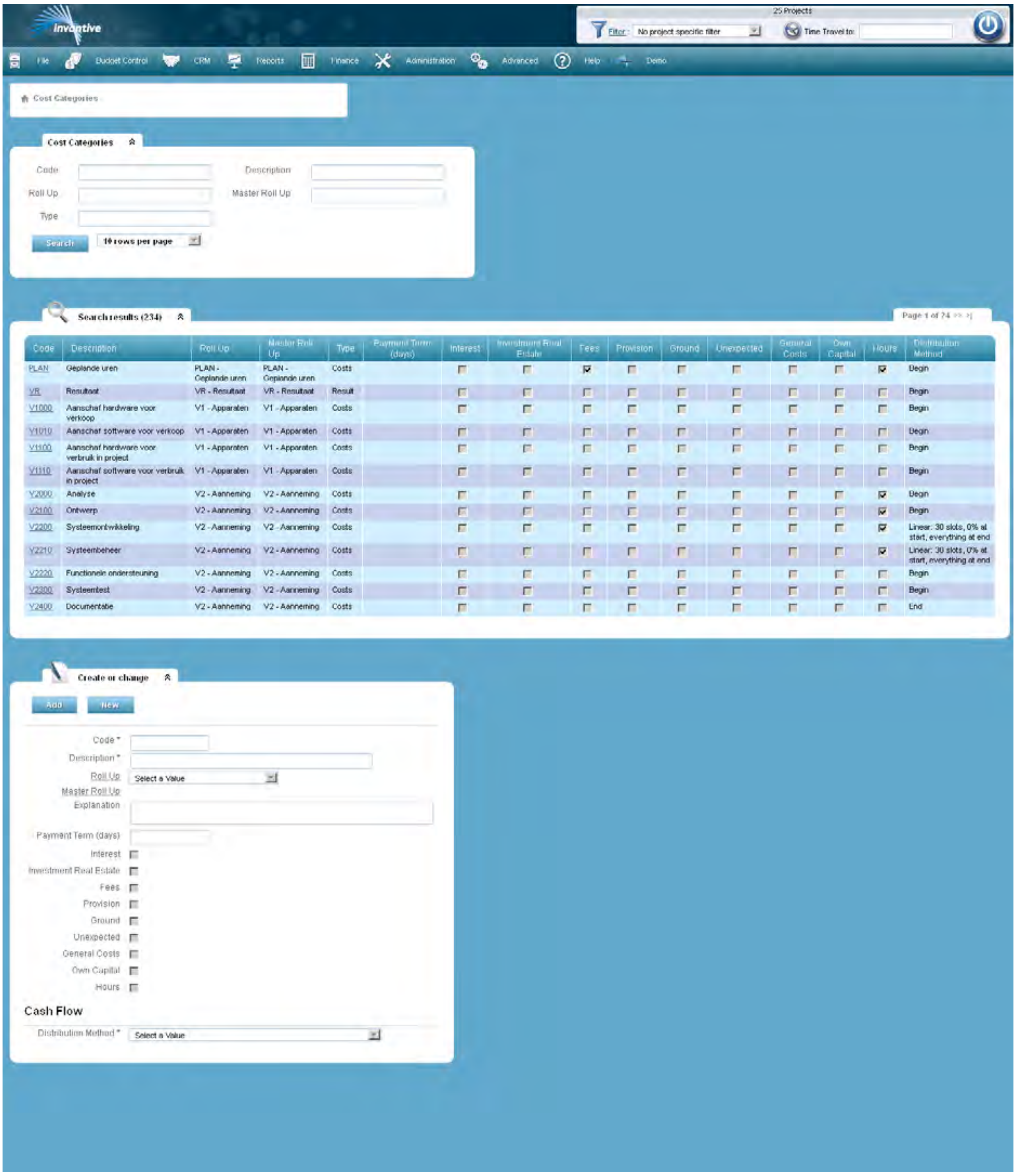
Cost Categories

In this screen you can register and change cost types for project budgets.

A cost category is a category in which costs or revenues can be registered, such as ‘purchase ground’, ‘architect’ or ‘sale houses’. All financial activities within a project will be distributed to a cost category. Within all projects that are registered you can use the same cost category.

A cost category belongs to specifically one roll up, in which linked cost categories are grouped (see also Roll Ups 190). Roll ups belong to master roll ups which show an even more general view of cost categories. (see also Master Roll Ups 191).

The cost category structure for real estate projects is often based on the NEN norm 2631.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Cost Categories
Cost Categories
Code
Description
Roll Up
Master Roll Up
Type
Search
10 rows per page
Search results (234)
Page 1 of 24 >> >|
Create or change
Add
New
Code *
Description *
Roll Up
Master Roll Up
Explanation
Payment Term (days)
Interest
Investment Real Estate
Fees
Provision
Ground
Unexpected
General Costs
Own Capital
Hours
Cash Flow
Distribution Method *

Code	Description	Roll Up	Master Roll Up	Type	Payment Term (days)	Interest	Investment Real Estate	Fees	Provision	Ground	Unexpected	General Costs	Own Capital	Hours	Distribution Method
PLAN	Geplande uren	PLAN - Geplande uren	PLAN - Geplande uren	Costs		☐	☐	☑	☐	☐	☐	☐	☐	☑	Begin
VR	Resultaat	VR - Resultaat	VR - Resultaat	Result		☐	☐	☐	☐	☐	☐	☐	☐	☐	Begin
V1000	Aanschaf hardware voor verkoop	V1 - Apparaten	V1 - Apparaten	Costs		☐	☐	☐	☐	☐	☐	☐	☐	☐	Begin
V1010	Aanschaf software voor verkoop	V1 - Apparaten	V1 - Apparaten	Costs		☐	☐	☐	☐	☐	☐	☐	☐	☐	Begin
V1100	Aanschaf hardware voor verbruik in project	V1 - Apparaten	V1 - Apparaten	Costs		☐	☐	☐	☐	☐	☐	☐	☐	☐	Begin
V1110	Aanschaf software voor verbruik in project	V1 - Apparaten	V1 - Apparaten	Costs		☐	☐	☐	☐	☐	☐	☐	☐	☐	Begin
V2000	Analyse	V2 - Aanneming	V2 - Aanneming	Costs		☐	☐	☐	☐	☐	☐	☐	☐	☑	Begin
V2100	Ontwerp	V2 - Aanneming	V2 - Aanneming	Costs		☐	☐	☐	☐	☐	☐	☐	☐	☑	Begin
V2200	Systeemontwikkeling	V2 - Aanneming	V2 - Aanneming	Costs		☐	☐	☐	☐	☐	☐	☐	☐	☑	Linear: 30 slots, 0% at start, everything at end
V2210	Systeembeheer	V2 - Aanneming	V2 - Aanneming	Costs		☐	☐	☐	☐	☐	☐	☐	☐	☑	Linear: 30 slots, 0% at start, everything at end
V2220	Functionele ondersteuning	V2 - Aanneming	V2 - Aanneming	Costs		☐	☐	☐	☐	☐	☐	☐	☐	☐	Begin
V2300	Systeemtest	V2 - Aanneming	V2 - Aanneming	Costs		☐	☐	☐	☐	☐	☐	☐	☐	☐	Begin
V2400	Documentatie	V2 - Aanneming	V2 - Aanneming	Costs		☐	☐	☐	☐	☐	☐	☐	☐	☐	End

Roll Up: Select a Value

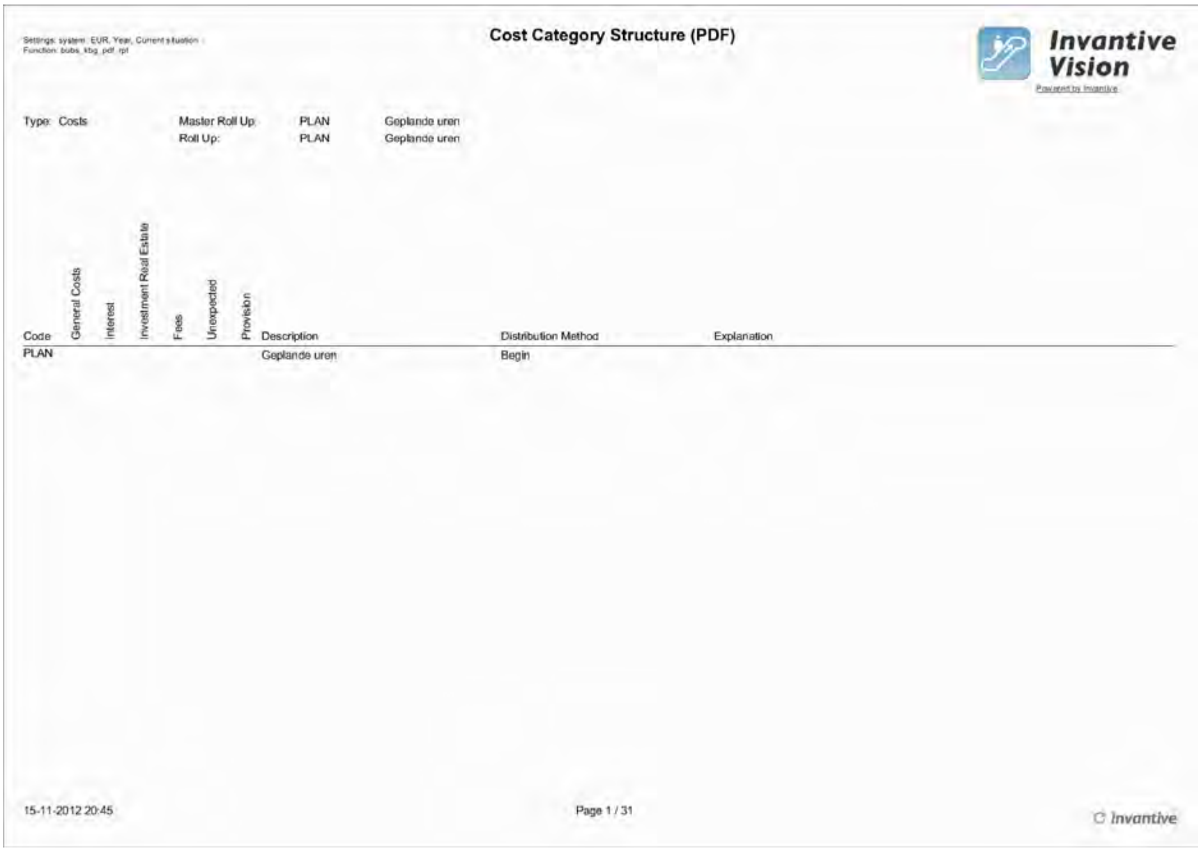
Distribution Method *: Select a Value

The meaning of the entry fields is:

Master Roll Up	The master roll up to which the selected roll up belongs.
Roll Up	The roll up to which the cost category belongs.
Code	The code of the cost category.
Description	The description of the cost category.
Explanation	Free text.
Payment Term (days)	Gives the number of days in which an invoice has to be paid. For invoices within this cost category with no expiration date or not yet received. For Cash Flow Projections 89.
Interest	This cost category is treated as interest if this box is checked.
Investment Real Estate	This cost category is treated as investment property if this box is checked.
Fees	This cost category is treated as Developer Costs if this box is checked.
Provision	This cost category is treated as a provision if this box is checked.
Ground	This cost category is treated as acquisition costs for land if this box is checked.
Unexpected	This cost category is treated as a reserve for contingencies if this box is checked.
General Costs	This cost category is treated as general expenses if this box is checked.
Own Capital	This cost category is treated as owner's capital if this box is checked.
Hours	This cost category is treated as a reserve for contingencies if this box is checked.
Distribution Method	The way cash flows are allocated for this cost category if not set on a more precise level.

Cost Categories Structure

This report shows the cost category structure of the project or of the organization.



Settings: system : EUR, Year, Current situation
Function: bubs_kbg_pdf_rpt

Cost Category Structure (PDF)

Type: Costs

Master Roll Up: PLAN Geplande uren
Roll Up: PLAN Geplande uren

Code	General Costs	Interest	Investment Real Estate	Fees	Unexpected	Provision	Description	Distribution Method	Explanation
PLAN							Geplande uren	Begin	

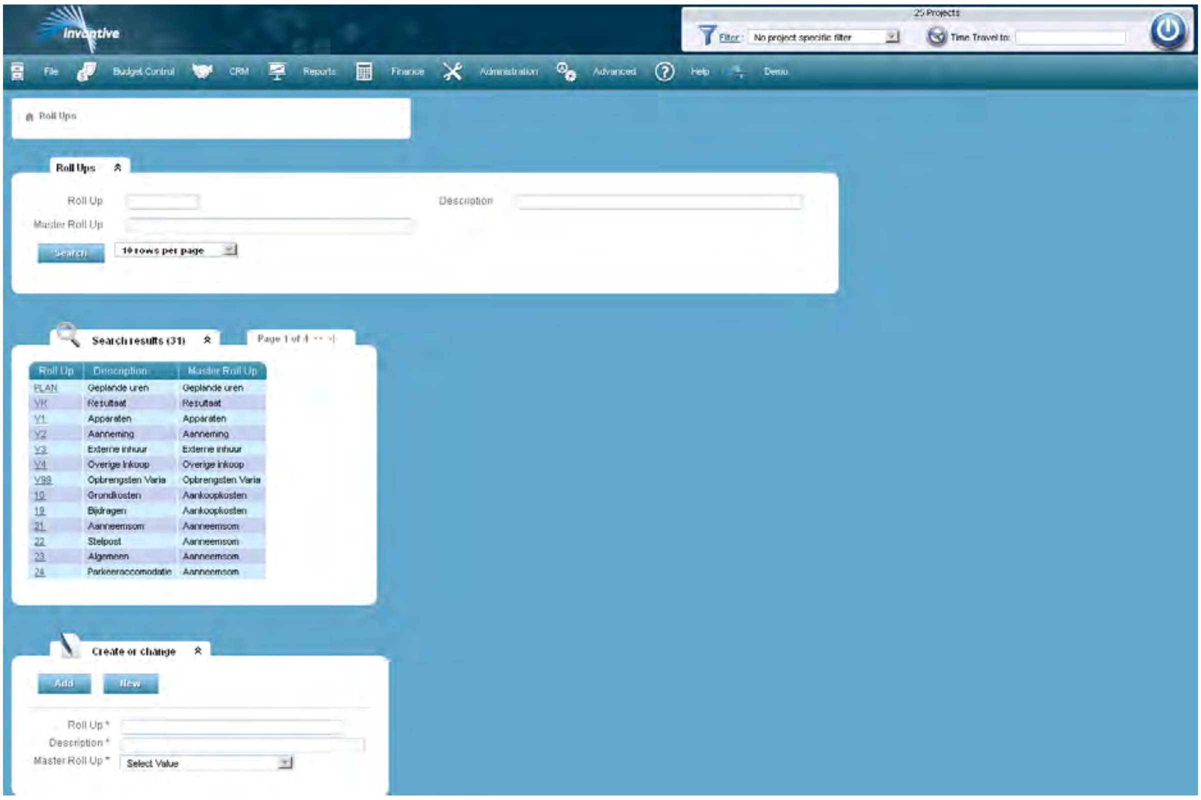
15-11-2012 20:45

Page 1 / 31

Roll Ups

In this form you can register and change roll ups.

A roll up is a bundle of individual cost categories. Roll ups are used to combine financial information, which is registered per cost category, into a medium level, such as ‘Acquisition’, within projects. The financial information can also be requested on cost category, in case a less general division is required. The financial information can also be requested on master roll up level, in case a more general division is required.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Roll Ups
Roll Ups
Roll Up
Description
Master Roll Up
Search
10 rows per page
Search results (31)
Page 1 of 4
Create or change
Add
New
Roll Up *
Description *
Master Roll Up *
Select Value

Roll Up	Description	Master Roll Up
PLAN	Geplande uren	Geplande uren
VR	Resultaat	Resultaat
V1	Apparaten	Apparaten
V2	Aanneming	Aanneming
V3	Externe inhuur	Externe inhuur
V4	Overige Inkoop	Overige inkoop
V98	Opbrengsten Varia	Opbrengsten Varia
10	Grondkosten	Aankoopkosten
19	Bijdragen	Aankoopkosten
21	Aanneemsom	Aanneemsom
22	Stelpost	Aanneemsom
23	Algemeen	Aanneemsom
24	Parkeeraccomodatie	Aanneemsom

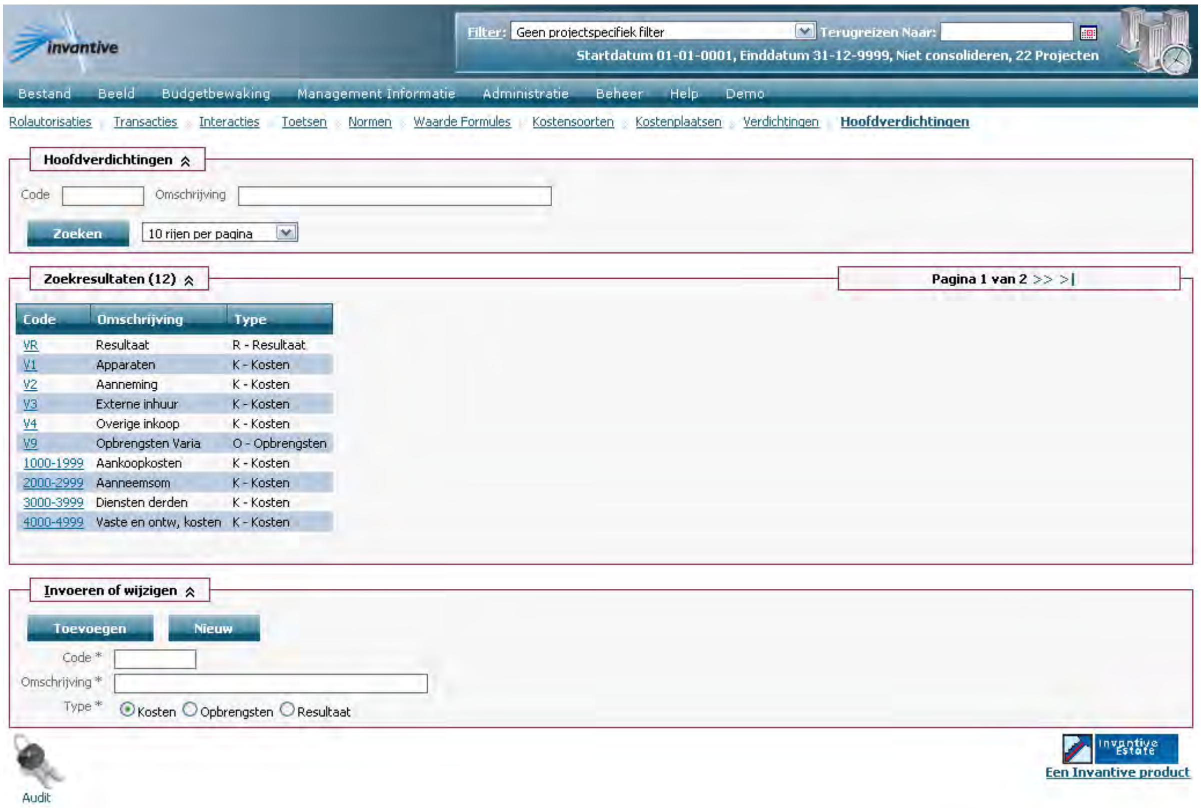
The meaning of the entry fields is:

Roll Up	The roll up code.
Description	The description.
Master Roll Up	The code of the master roll up to w hich the roll up belongs.

Master Roll Ups

In this form you can register and change master roll ups.

A master roll up is a bundle of cost category roll ups which are a bundle of individual cost categories. Master Roll Ups are used to summarize financial information, which is registered per cost category within a project, at a high level, such as ‘Income’. In case a less general division is needed, the financial information can also be shown at roll up level or at cost category level.


invantive
Bestand
Beeld
Budgetbewaking
Management Informatie
Administratie
Beheer
Help
Demo
Rolautorisaties
Transacties
Interacties
Toetsen
Normen
Waarde Formules
Kostensoorten
Kostenplaatsen
Verdichtingen
Hoofdverdichtingen
Zoeken
Toevoegen
Nieuw
Audit
Invantive Estate
Een Invantive product

Filter: Geen projectspecifiek filter Terugreizen Naar:

Startdatum 01-01-0001, Einddatum 31-12-9999, Niet consolideren, 22 Projecten

Hoofdverdichtingen

Code Omschrijving

10 rijen per pagina

Zoekresultaten (12) Pagina 1 van 2 >> >|

Code	Omschrijving	Type
VR	Resultaat	R - Resultaat
V1	Apparaten	K - Kosten
V2	Aanneming	K - Kosten
V3	Externe inhuur	K - Kosten
V4	Overige inkoop	K - Kosten
V9	Opbrengsten Varia	O - Opbrengsten
1000-1999	Aankoopkosten	K - Kosten
2000-2999	Aanneemsom	K - Kosten
3000-3999	Diensten derden	K - Kosten
4000-4999	Vaste en ontw, kosten	K - Kosten

Invoeren of wijzigen

Code *

Omschrijving *

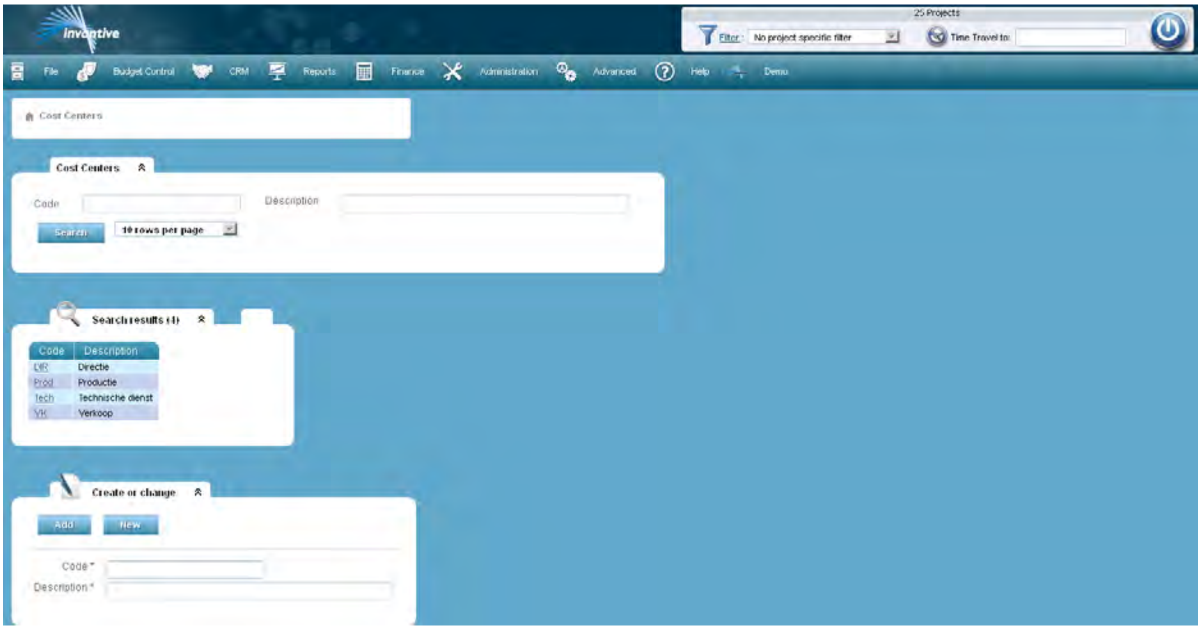
Type * ● Kosten ○ Opbrengsten ○ Resultaat

The meaning of the entry fields is:

Code	The master roll up code.
Description	The description.
Type	The type of roll up. The type of the master roll up determines which kind of data can be registered at the lower level cost categories. Moreover, the type of master roll up also influences the way reports group, sort and show the financial information in a master roll up. On cost categories under the category 'Costs', you can register budgets and make budget modifications (see Assign Budgets 149), latest estimates (see Latest Estimates 67), orders (see Orders 65), contract budgets (see Contract Budgets 73) and invoice lines (see Invoice Lines 138) register. On cost categories under the category 'Revenue' you can register budgets (see Assign Budgets 149), revenue (see Revenues 69) and invoice lines (see Invoice Lines 138) register. On cost categories under the category 'results', you can register invoice lines (see Invoice lines 138) register. 'Cost' and 'Revenues' are the financial flows within the project. 'Results' is used to transfer the results of the project from the balance sheet to the profit and loss statement. This can be done at the end of the project or for instance monthly, for example, based on the construction progress.
Explanation	Possible explanation.

Cost Centers

This screen can be recorded and changed cost center.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Cost Centers
Cost Centers
Code
Description
Search
10 rows per page
Search results (4)
Create or change
Add
New
Code *
Description *

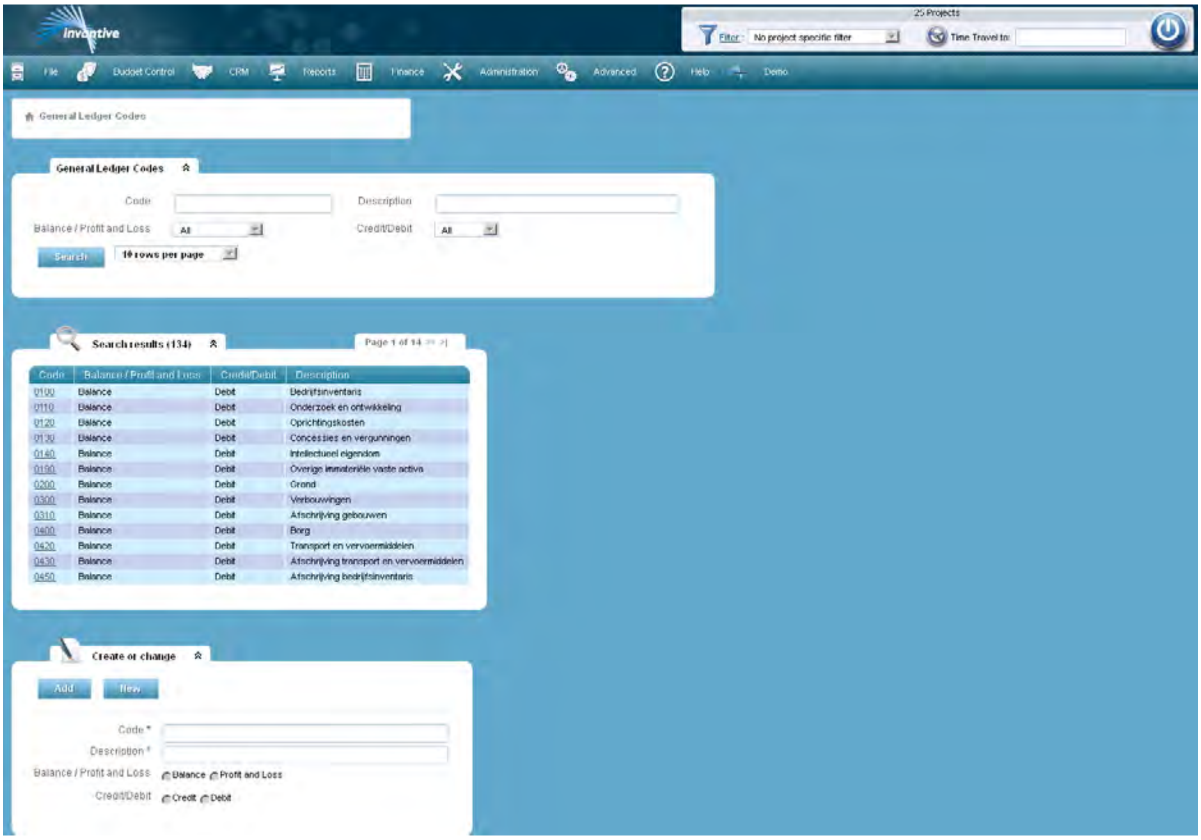
Code	Description
DIR	Directie
Prod	Productie
Tech	Technische dienst
VK	Verkoop

The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the cost center.
Description	Description of the cost center.

General ledger account codes

In this screen general ledger account codes can be registered and edited.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
General Ledger Codes
General Ledger Codes
Code
Description
Balance / Profit and Loss
All
Credit/Debit
All
Search
10 rows per page
Search results (134)
Page 1 of 14
Create or change
Add
New
Code *
Description *
Balance / Profit and Loss
○ Balance ○ Profit and Loss
Credit/Debit
○ Credit ○ Debit

Code	Balance / Profit and Loss	Credit/Debit	Description
0100	Balance	Debit	Bedrijfsinventaris
0110	Balance	Debit	Onderzoek en ontwikkeling
0120	Balance	Debit	Oprichtingskosten
0130	Balance	Debit	Concessies en vergunningen
0140	Balance	Debit	Intellectueel eigendom
0190	Balance	Debit	Overige immateriële vaste activa
0200	Balance	Debit	Grond
0300	Balance	Debit	Verbouwingen
0310	Balance	Debit	Afschrijving gebouwen
0400	Balance	Debit	Borg
0420	Balance	Debit	Transport en vervoermiddelen
0430	Balance	Debit	Afschrijving transport en vervoermiddelen
0450	Balance	Debit	Afschrijving bedrijfsinventaris

The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the general ledger code.

Description	Description of the general ledger code.
Balance / Profit & Loss	Indicator which indicates if it is a balance or profit and loss entry.
Credit/debit	Indicator which indicates if it is a credit or debit entry.

1.2.7.4 CRM

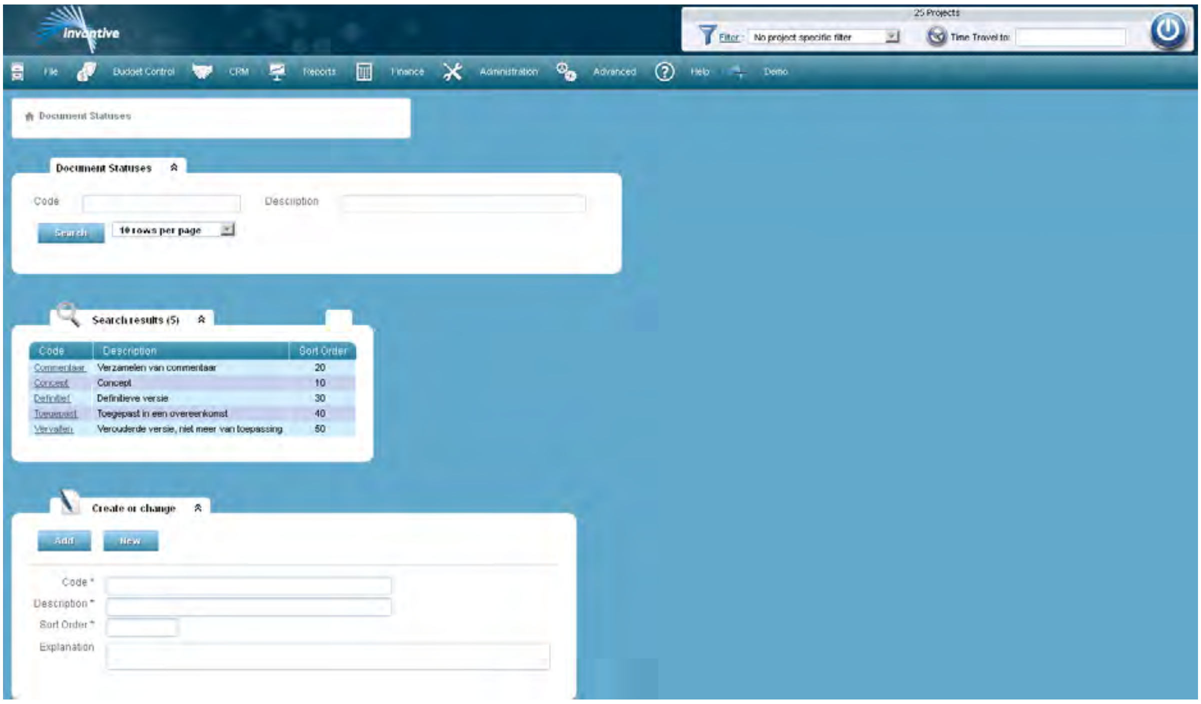
This chapter presents the relationships between the project or the organization and suppliers, customers and employees.

Documents

Enter text here.

Document Statuses

In this screen you can register and change document statuses.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Document Statuses
Document Statuses
Code
Description
Search
10 rows per page
Search results (5)
Create or change
Add
New
Code *
Description *
Sort Order *
Explanation

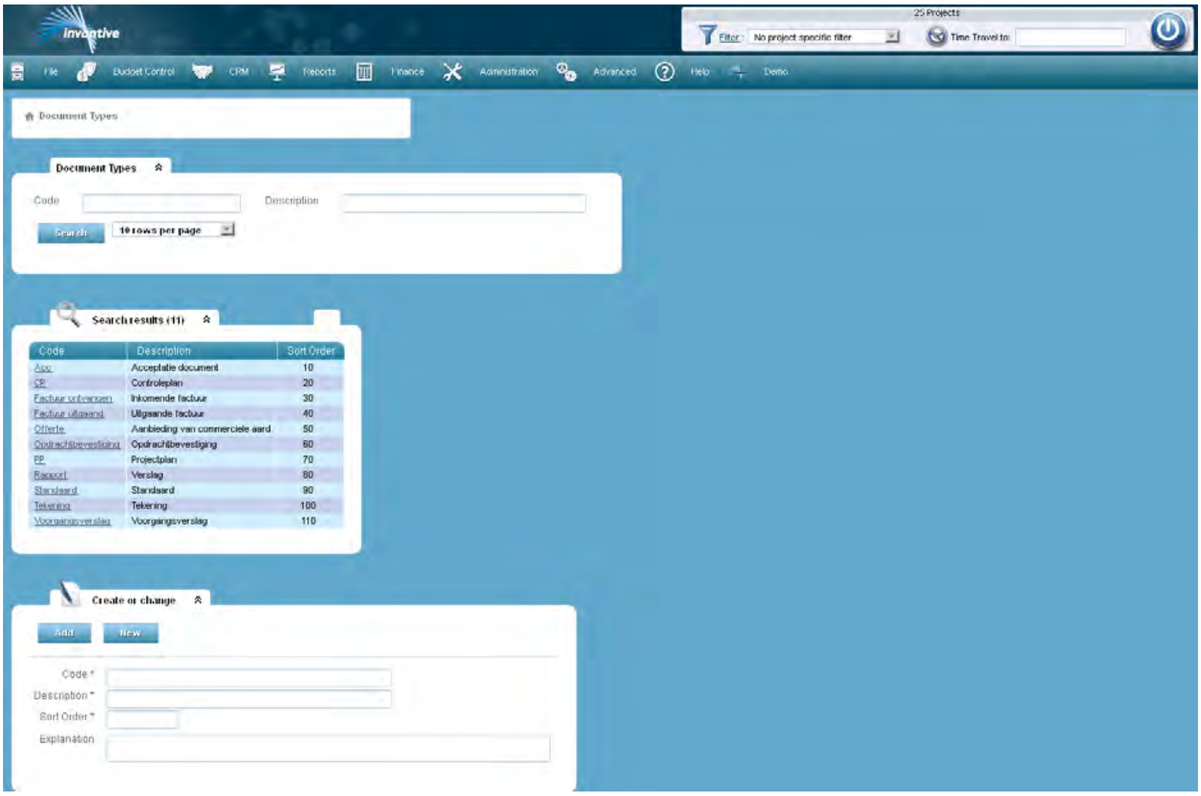
Code	Description	Sort Order
Commentaar	Verzamelen van commentaar	20
Concept	Concept	10
Definitief	Definitieve versie	30
Toegepast	Toegepast in een overeenkomst	40
Vervallen	Verouderde versie, niet meer van toepassing	50

The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the document status.
Description	Description of the document status.
Sort Order	A numeric value on which the document statuses are sorted when they are shown in a list box in a screen.

Document Types

In this screen you can register and change document types.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Document Types
Document Types
Code
Description
Search
10 rows per page
Search results (11)
Create or change
Add
New
Code *
Description *
Sort Order *
Explanation

Code	Description	Sort Order
Acc	Acceptatie document	10
CP	Controleplan	20
Factuur ontvangen	Inkomende factuur	30
Factuur uitgaand	Uitgaande factuur	40
Offerte	Aanbieding van commerciele aard	50
Opdrachtbevestiging	Opdrachtbevestiging	60
PP	Projectplan	70
Rapport	Verslag	80
Standaard	Standaard	90
Tekening	Tekening	100
Voorgangsverslag	Voorgangsverslag	110

s

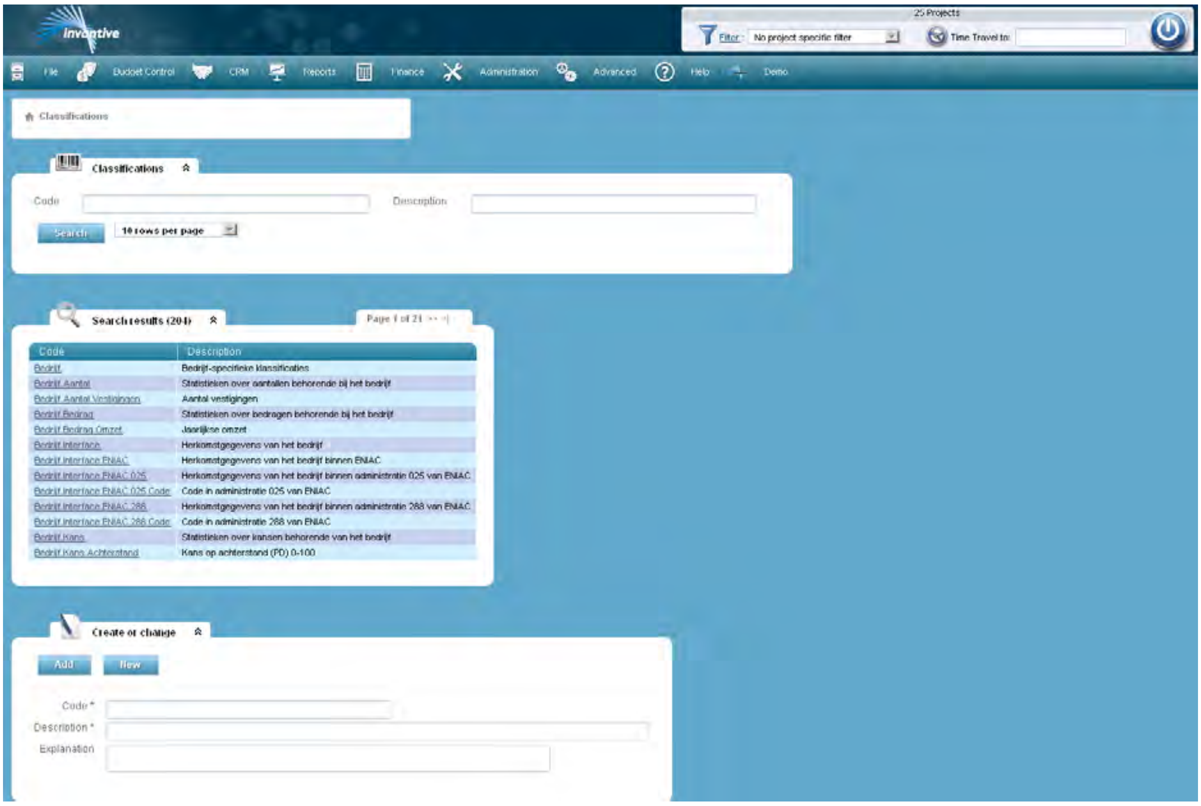
The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the document type.
Description	Description of the document type.
Sort Order	A numeric value on which the document types are sorted when they are shown in a list box in a screen.

Classifications

In this screen you can register and change classifications.

A classification is a label that is linked to a project, a process, an organization, a person, or a document. The label provides additional information about the file to which it is attached and makes in this way a keyword based classification and indexing possible. With labels you can find your desired information more efficient.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Classifications
Classifications
Code
Description
Search
10 rows per page
Search results (204)
Page 1 of 21
Create or change
Add
New
Code *
Description *
Explanation

Code	Description
Bedrijf	Bedrijf-specifieke klassificaties
Bedrijf.Aantal	Statistieken over aantallen behorende bij het bedrijf
Bedrijf.Aantal.Vestigingen	Aantal vestigingen
Bedrijf.Bedrag	Statistieken over bedragen behorende bij het bedrijf
Bedrijf.Bedrag.Omzet	Jaarlijkse omzet
Bedrijf.Interface	Herkomstgegevens van het bedrijf
Bedrijf.Interface.ENIAC	Herkomstgegevens van het bedrijf binnen ENIAC
Bedrijf.Interface.ENIAC.025	Herkomstgegevens van het bedrijf binnen administratie 025 van ENIAC
Bedrijf.Interface.ENIAC.025.Code	Code in administratie 025 van ENIAC
Bedrijf.Interface.ENIAC.288	Herkomstgegevens van het bedrijf binnen administratie 288 van ENIAC
Bedrijf.Interface.ENIAC.288.Code	Code in administratie 288 van ENIAC
Bedrijf.Kans	Statistieken over kansen behorende van het bedrijf
Bedrijf.Kans.Achterstand	Kans op achterstand (PD) 0-100

Classifications make use of a tree structure where '.' is used as a separator. So 'A.B' first requires the presence of 'A'.

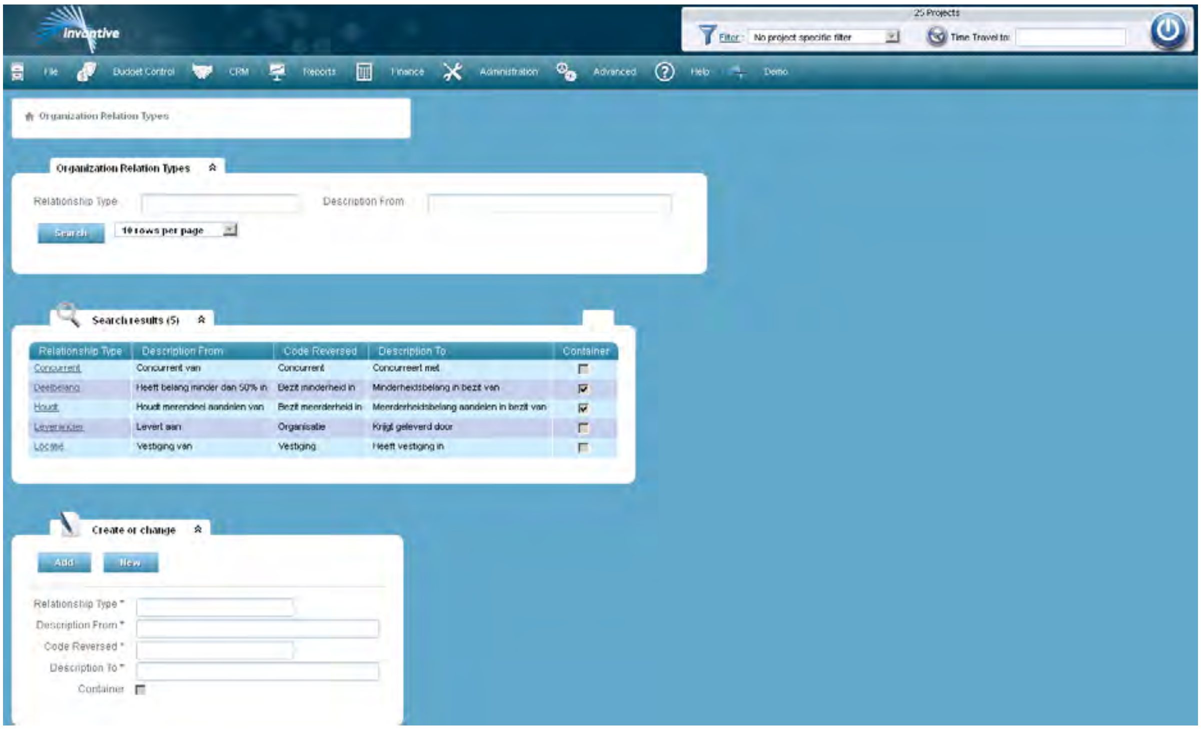
The meaning of the entry fields is:

Code	The unique code of the classification.
Description	Description of the classification.
Explanation	Possible explanation.

Organization Relation Types

In this screen you can register and change organization relation types.

An organization relation type describes the relation type between two organizations.


25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Organization Relation Types
Organization Relation Types
Relationship Type
Description From
Search
10 rows per page
Search results (5)
Create or change
Add
New
Relationship Type *
Description From *
Code Reversed *
Description To *
Container

Relationship Type	Description From	Code Reversed	Description To	Container
Concurrent	Concurrent van	Concurrent	Concurreert met	☐
Deelbelang	Heeft belang minder dan 50% in	Bezit minderheid in	Minderheidsbelang in bezit van	☑
Houdt	Houdt merendeel aandelen van	Bezit meerderheid in	Meerderheidsbelang aandelen in bezit van	☑
Leverancier	Levert aan	Organisatie	Krijgt geleverd door	☐
Locatie	Vestiging van	Vestiging	Heeft vestiging in	☐

The meaning of the entry fields is:

Relationship Type	The code of the organization relation type.
Description from	Organization Relation Type as viewed from the begin point of the organization relation.
Code Reversed	Unique alphanumeric code for the organization relation type as viewed from the perspective of the second party relation.
Description to	Organization Relation as viewed from the end point of the organization relation.
Container	When checked the start point from the organization relation is a container organization.

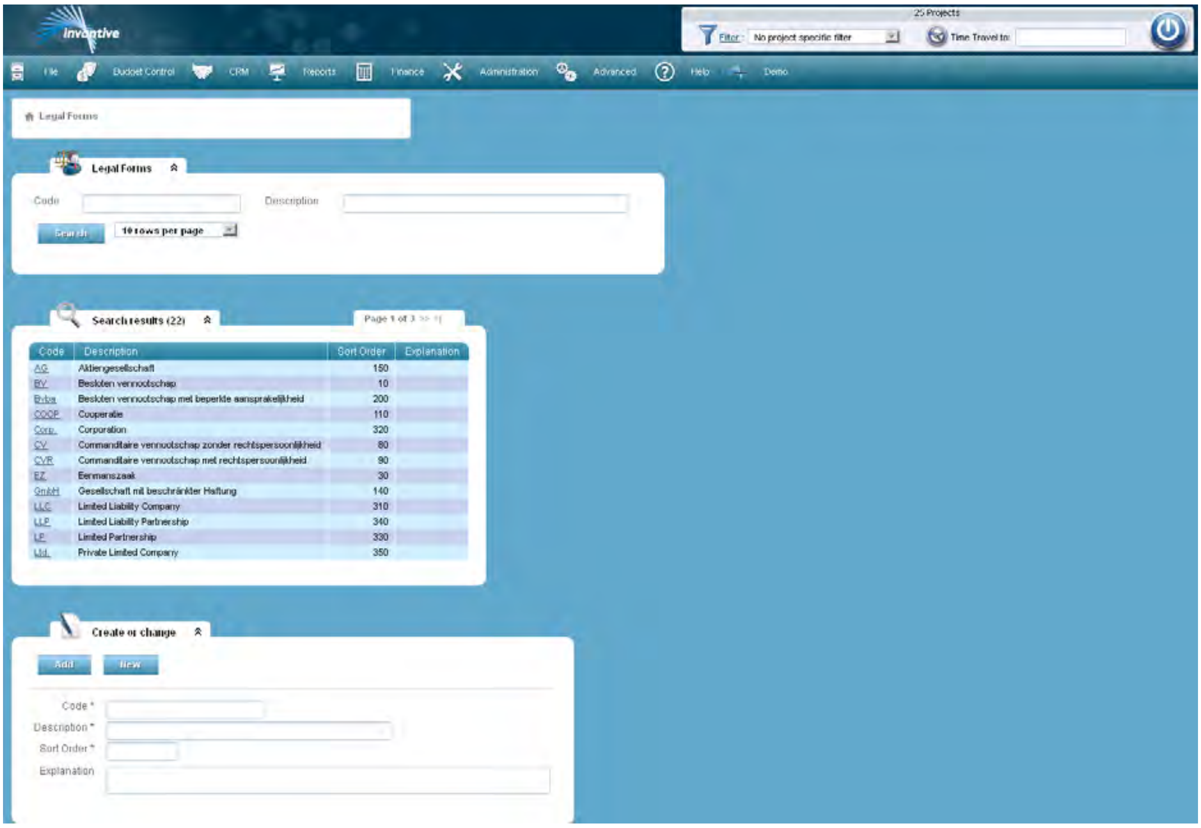
Legal Forms

In this screen you can register and change legal forms.

The legal form of a company, enterprise or organization, is the legal form where the enterprise is cast.

The simplest business form is a sole proprietorship. The sole proprietor is the owner of the business including the operator and the gain or loss from the enterprise is equal to the profit or loss of the entrepreneur. For more complex legal forms, there is a greater distinction between the enterprise and the owners or operators of that enterprise.

The legislation in each country determines which legal forms in the business as possible.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Legal Forms
Legal Forms
Code
Description
Search
10 rows per page
Search results (22)
Page 1 of 3 >> >|
Create or change
Add
New
Code *
Description *
Sort Order *
Explanation

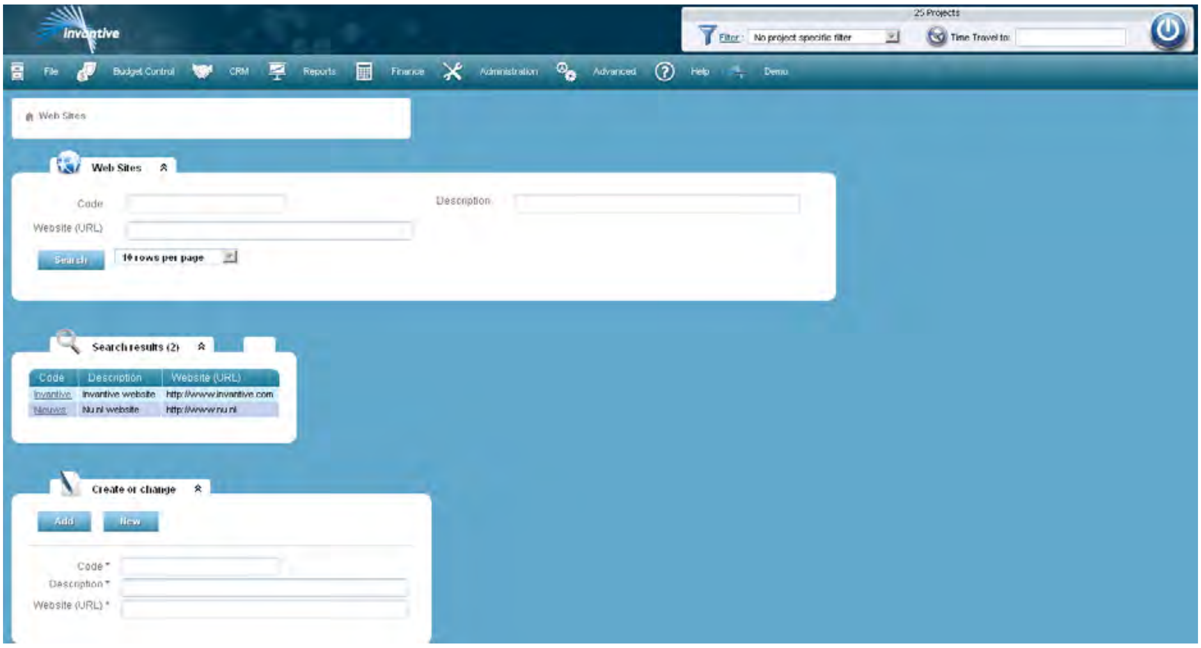
Code	Description	Sort Order	Explanation
AG	Aktiengesellschaft	150	
BV	Besloten vennootschap	10	
Bvba	Besloten vennootschap met beperkte aansprakelijkheid	200	
COOP	Cooperatie	110	
Corp.	Corporation	320	
CV	Commanditaire vennootschap zonder rechtspersoonlijkheid	80	
CVR	Commanditaire vennootschap met rechtspersoonlijkheid	90	
EZ	Eenmanszaak	30	
GmbH	Gesellschaft mit beschränkter Haftung	140	
LLC	Limited Liability Company	310	
LLP	Limited Liability Partnership	340	
LP	Limited Partnership	330	
Ltd.	Private Limited Company	350	

The meaning of the entry fields is:

Code	The unique code of the legal form.
Description	Description of the legal form.
Sort Order	A numeric value on which the legal forms are sorted when they are shown in a list box in a screen.
Explanation	An explanation of the legal form.

Web Sites

In this screen you can register and change websites.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Web Sites
Web Sites
Code
Description
Website (URL)
Search
10 rows per page
Search results (2)
Create or change
Add
New
Code *
Description *
Website (URL) *

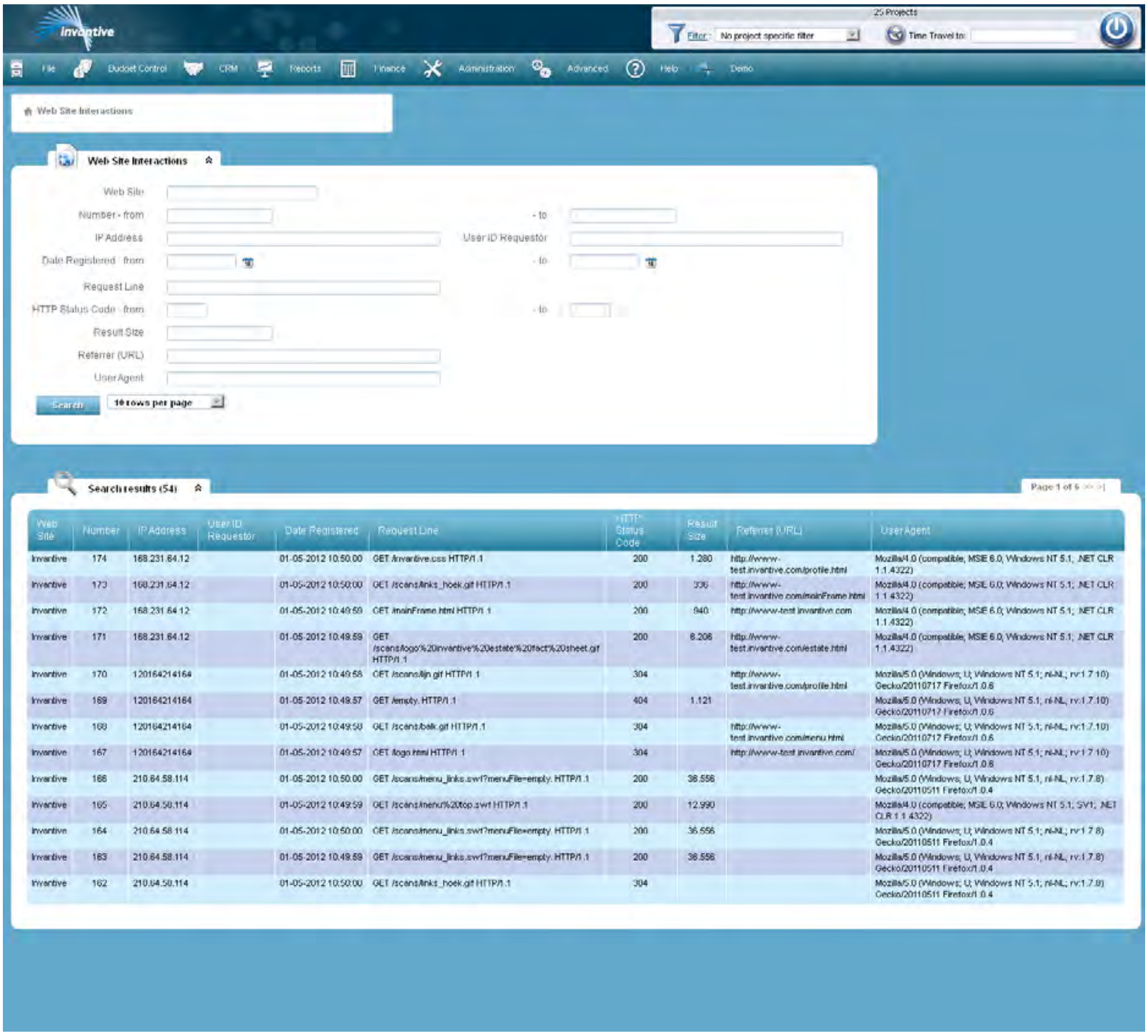
Code	Description	Website (URL)
Invantive	Invantive website	http://www.invantive.com
Nieuws	Nu.nl website	http://www.nu.nl

The meaning of the entry fields is:

Code	The unique code of the w ebsite.
Description	Description of the w ebsite for show ing reports and screens.
Website (URL)	The home of the w ebsite, specified as URL.

Web Site Interactions

In this screen you can register and change website interactions.


invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Web Site Interactions
Web Site Interactions
Web Site
Number - from
- to
IP Address
User ID Requestor
Date Registered - from
- to
Request Line
HTTP Status Code - from
- to
Result Size
Referrer (URL)
User Agent
Search
10 rows per page
Search results (54)
Page 1 of 6 >> >|

Web Site	Number	IP Address	User ID Requestor	Date Registered	Request Line	HTTP Status Code	Result Size	Referrer (URL)	User Agent
Invantive	174	168.231.64.12		01-05-2012 10:50:00	GET /invantive.css HTTP/1.1	200	1.280	http://www-test.invantive.com/profile.html	Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR 1.1.4322)
Invantive	173	168.231.64.12		01-05-2012 10:50:00	GET /scans/links_hoek.gif HTTP/1.1	200	336	http://www-test.invantive.com/mainFrame.html	Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR 1.1.4322)
Invantive	172	168.231.64.12		01-05-2012 10:49:59	GET /mainFrame.html HTTP/1.1	200	940	http://www-test.invantive.com	Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR 1.1.4322)
Invantive	171	168.231.64.12		01-05-2012 10:49:59	GET /scans/logo/%20invantive%20estate%20fact%20sheet.gif HTTP/1.1	200	6.206	http://www-test.invantive.com/estate.html	Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR 1.1.4322)
Invantive	170	120164214164		01-05-2012 10:49:58	GET /scans/lijn.gif HTTP/1.1	304		http://www-test.invantive.com/profile.html	Mozilla/5.0 (Windows; U; Windows NT 5.1; nl-NL; rv:1.7.10) Gecko/20110717 Firefox/1.0.6
Invantive	169	120164214164		01-05-2012 10:49:57	GET /empty. HTTP/1.1	404	1.121		Mozilla/5.0 (Windows; U; Windows NT 5.1; nl-NL; rv:1.7.10) Gecko/20110717 Firefox/1.0.6
Invantive	168	120164214164		01-05-2012 10:49:58	GET /scans/balk.gif HTTP/1.1	304		http://www-test.invantive.com/menu.html	Mozilla/5.0 (Windows; U; Windows NT 5.1; nl-NL; rv:1.7.10) Gecko/20110717 Firefox/1.0.6
Invantive	167	120164214164		01-05-2012 10:49:57	GET /logo.html HTTP/1.1	304		http://www-test.invantive.com/	Mozilla/5.0 (Windows; U; Windows NT 5.1; nl-NL; rv:1.7.10) Gecko/20110717 Firefox/1.0.6
Invantive	166	210.64.58.114		01-05-2012 10:50:00	GET /scans/menu_links.swf?menuFile=empty. HTTP/1.1	200	38.556		Mozilla/5.0 (Windows; U; Windows NT 5.1; nl-NL; rv:1.7.8) Gecko/20110511 Firefox/1.0.4
Invantive	165	210.64.58.114		01-05-2012 10:49:59	GET /scans/menu%20top.swf HTTP/1.1	200	12.990		Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322)
Invantive	164	210.64.58.114		01-05-2012 10:50:00	GET /scans/menu_links.swf?menuFile=empty. HTTP/1.1	200	36.556		Mozilla/5.0 (Windows; U; Windows NT 5.1; nl-NL; rv:1.7.8) Gecko/20110511 Firefox/1.0.4
Invantive	163	210.64.58.114		01-05-2012 10:49:59	GET /scans/menu_links.swf?menuFile=empty. HTTP/1.1	200	38.556		Mozilla/5.0 (Windows; U; Windows NT 5.1; nl-NL; rv:1.7.8) Gecko/20110511 Firefox/1.0.4
Invantive	162	210.64.58.114		01-05-2012 10:50:00	GET /scans/links_hoek.gif HTTP/1.1	304			Mozilla/5.0 (Windows; U; Windows NT 5.1; nl-NL; rv:1.7.8) Gecko/20110511 Firefox/1.0.4

The meaning of the entry fields is:

Website	Reference to a w ebsite as registered in Websites 198.
Number	Unique numeric code.
IP Address	IP-address of the requestor.
Login	Users identification used for the registration for the requested page.
Date Registered	Date and time the request w as requested.
Request Line	Line of the request that is used to determine w hich page w ill be sent back.
HTTP Status Number - Of	Numeric display of the status that w as sent back in response to the request.
Result Size	Size of the HTTP result that w as sent back.
Referrer (URL)	Reference to the retrieved w ebsite page.
Brow ser Specification	Specification of the used brow ser.

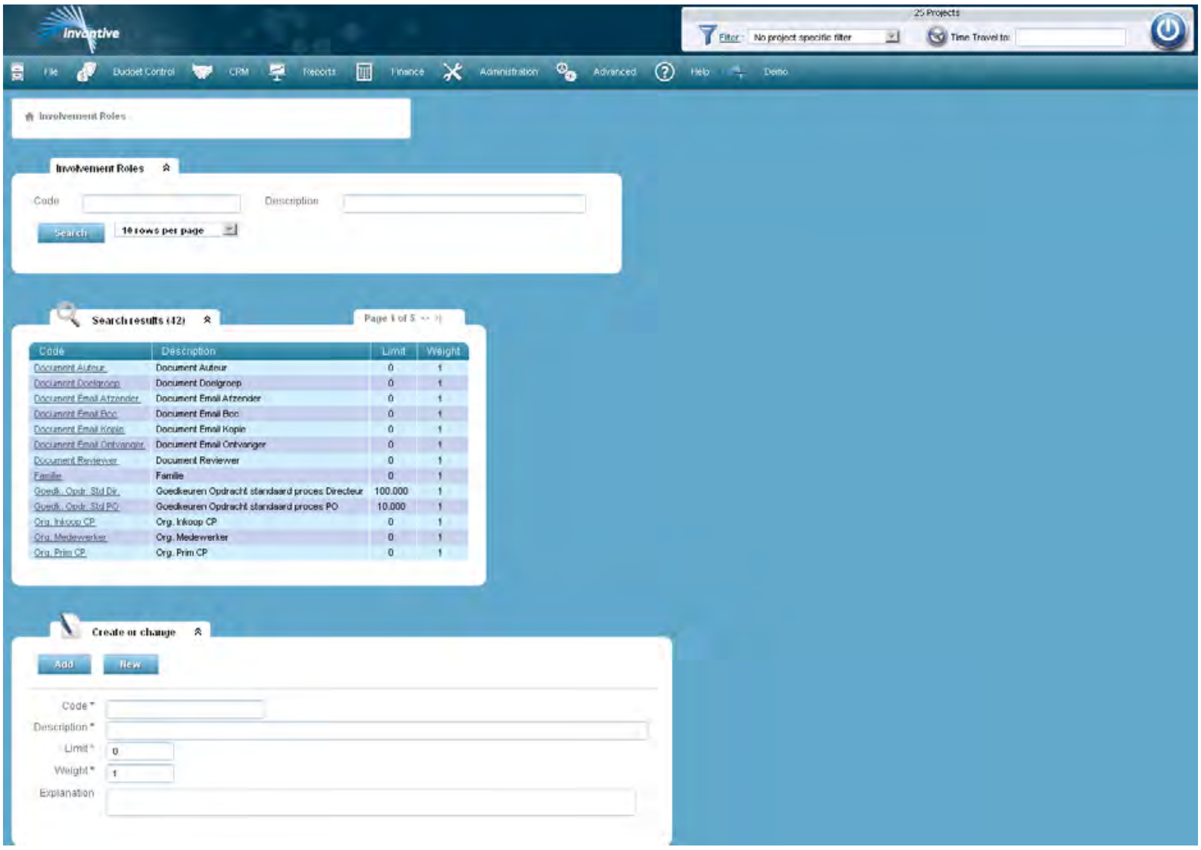
User Overview

Enter text here.

Involvement Roles

In this screen you can register and change 'Participation Roles'.

Persons participating in a project could have multiple roles assigned. The same role can be assigned to several people.


Invantive
25 Projects
Filter :
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Involvement Roles
Search
Page 1 of 5
Create or change
Add
New

Involvement Roles

Code

Description

10 rows per page

Search results (42)

Code	Description	Limit	Weight
Document Auteur	Document Auteur	0	1
Document Doelgroep	Document Doelgroep	0	1
Document Email Afzender	Document Email Afzender	0	1
Document Email Bcc	Document Email Bcc	0	1
Document Email Kopie	Document Email Kopie	0	1
Document Email Ontvanger	Document Email Ontvanger	0	1
Document Reviewer	Document Reviewer	0	1
Familie	Familie	0	1
Goedk. Opdr. Std Dir.	Goedkeuren Opdracht standaard proces Directeur	100.000	1
Goedk. Opdr. Std PO	Goedkeuren Opdracht standaard proces PO	10.000	1
Org. Inkoop CP	Org. Inkoop CP	0	1
Org. Medewerker	Org. Medewerker	0	1
Org. Prim CP	Org. Prim CP	0	1

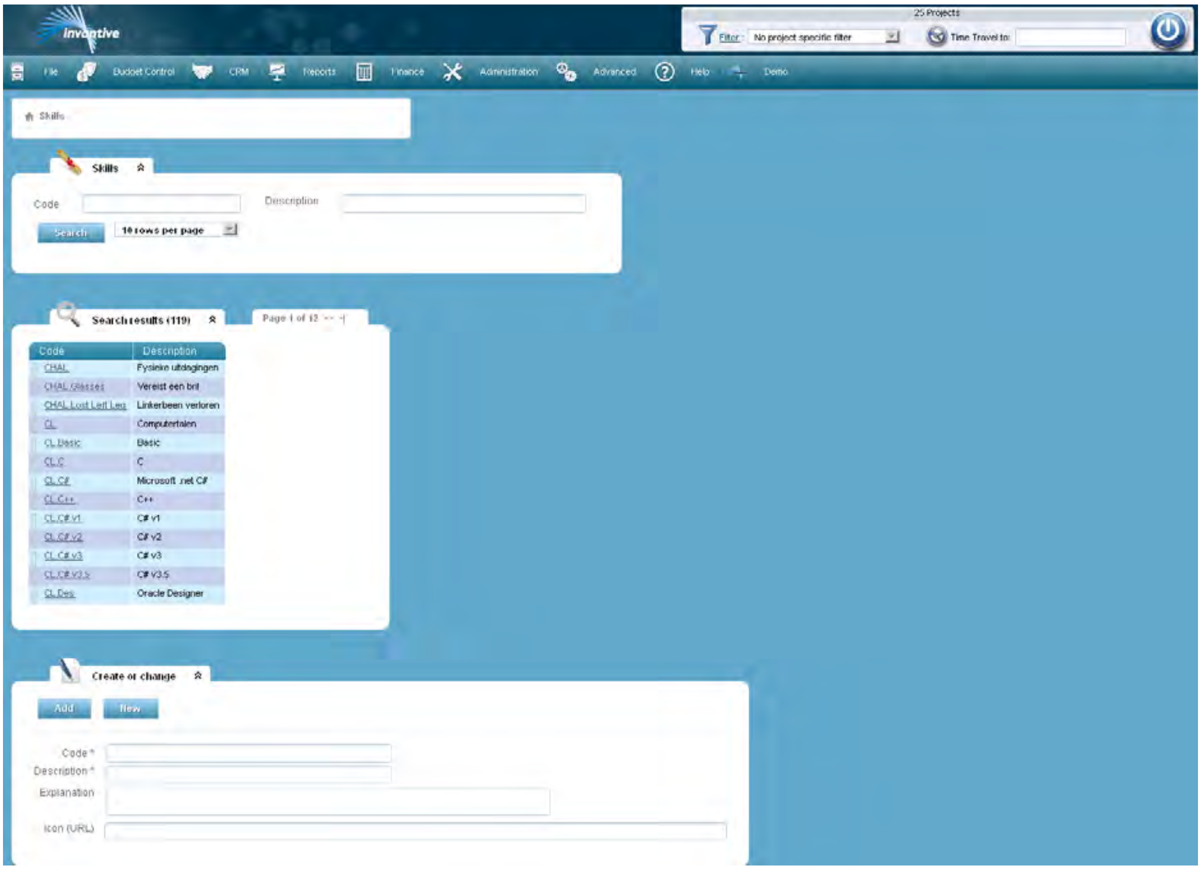
Code *
Description *
Limit * 0
Weight * 1
Explanation

The meaning of the entry fields is:

Code	The unique code of the 'involvement role'.
Description	Short description of the 'project involvement role'.
Limit	Deviating limit used for managing workflow transitions.
Weight	Weight assigned to this role.
Explanation	Optional explanation of the 'project involvement role'.

Skills

In this screen you can register and change skills.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Skills
Skills
Code
Description
Search
Search results (119)
Page 1 of 12
Create or change
Add
New
Code *
Description *
Explanation
Icon (URL)

10 rows per page

Code	Description
CHAL	Fysieke uitdagingen
CHAL.Glasses	Vereist een bril
CHAL.Lost Left Leg	Linkerbeen verloren
CL	Computertalen
CL.Basic	Basic
CL.C	C
CL.C#	Microsoft .net C#
CL.C++	C++
CL.C# v1	C# v1
CL.C# v2	C# v2
CL.C# v3	C# v3
CL.C# v3.5	C# v3.5
CL.Des	Oracle Designer

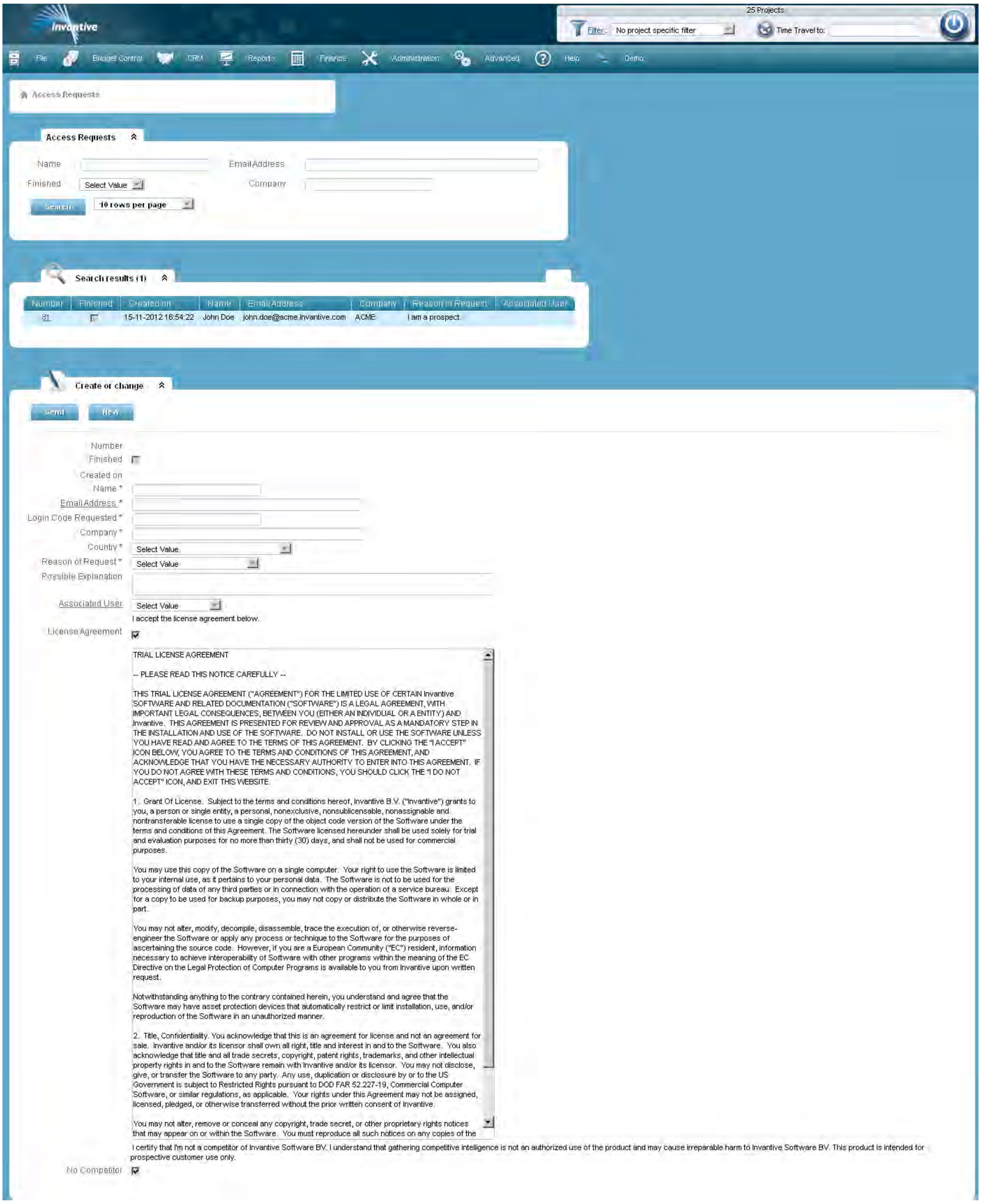
The meaning of the entry fields is:

Code	The unique code of the skill.
Description	The description of the skill.

Access Requests

In this form you can register and change requests for access.

The screen is an extension to the screen Request Entrance 8, that is specifically meant for persons currently without access rights. In this screen, the application administrator can close access requests, for example, after granting access rights.



Number	Finished	Created on	Name	Email Address	Company	Reason of Request	Associated User
81	☐	15-11-2012 16:54:22	John Doe	john.doe@acme.invantive.com	ACME	I am a prospect.	

I accept the license agreement below.

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No Competitor ☑

The meaning of the entry fields is:

Name	Name of the requester.
Email Address	The email address w here the access credentials should be sent to.
Login Code Requested	The login code that is requested for the applicant.
Business	The name of the organization at w hich the applicant is employed.
Country	The country of residence.
Reason of Request	The reason w hy you w ish access to Invantive Estate.
Possible Explanation	A free textual explanation of the reason for the request.
Associated User	The person w ho w as registered as user for the request.
License Agreement	The terms and conditions under w hich access is granted.

No Competitor	The confirmation that you will use the information received solely for the purposes described.
Finished	The request has been finished if checked.

1.2.7.5 Logistics

This section describes the screens relating to the logistics of a project or organization. Logistics covers the area of development and procurement followed by the production and distribution of products with the necessary personnel to the final customer, with the aim to fulfill the needs of the market at optimum cost and capital used.

Invantive Estate offersa a number of possibilities to settle logistical processes. The data is available at three levels in the product structure:

- Product Group 207: a bundle of products, such as for example ‘Consumables’.
- Product 208: a specific product without a serial number.
- Unit 151: a specific serial number of a product. A unit is an independent object of a certain product. For example, in real estate development this can be an office of the type ‘Gull’, while in the automation it can be a server with a serial number ‘123XBA’ of the type ‘Dell 2950’. To each product belongs óne unit with the unique identifier ‘0’. This unit can be used for logistic functions if no unique identifier is known. This so-called ‘0-unit’ is created by the system itself and will automatically be removed if the product is deleted.

A Unit 151 on its turn can have relationships with other units, so you can for example, capture which fingerprint reader is connected to which camera. This is not necessarily, but it is useful for complex configurations and it is typically used in service organizations that work with serial-based devices in large numbers in the field (so-called ‘MIF’ or ‘Machine-in-Field’).

Moreover a Unit 151 can have special properties that can be different for each Product 208. So for example for a vehicle the kilometers and for a fingerprint reader the number of fingers scanned.

This is for example useful for measuring a system (‘do we need to replace the cartridge’) or for invoicing (‘you need to pay EUR 100 per month plus EUR 0.10 per scanned finger’).

The last concept is Warehouses 204: a warehouse is a location where units are stored. This can be: a cabinet, a rack, a warehouse but also a vehicle or a garage box.

For a warehouse transactions of a specific Unit Transaction Type 206 can be registered. For example, ‘The issue a work order[1] or 'A recount'. This eventually leads to stock: a summation of all transactions in time leads to a certain position.

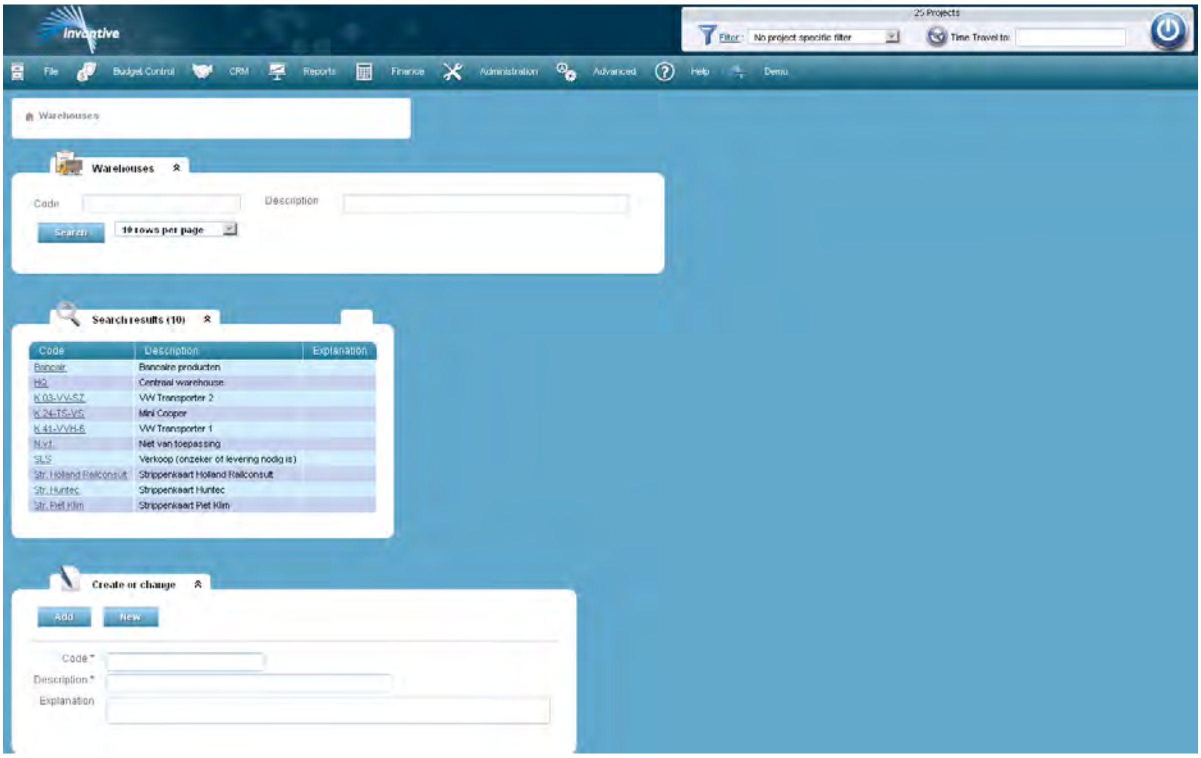
If the work order process is running well, the automatically write off of inventory can be used. This makes quite a few demands on the process, but it closes off the process neater.

Which logistics processes are less well supported by Invantive Estate ?

- Everything which has to do with production (how much shoes out of one square meter of leather, when and how many screws at what time, thus MRP 2/JIT).
- There are no integrations with handheld scanners, etc. made yet. Is still not standard available.
- The valuation in the books: at what value would you rate the stock: the current purchase price, the average price or something else? This is not supported by Invantive Estate.

Warehouses

In this screen you can register and change warehouses.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Warehouses
Warehouses
Code
Description
Search
10 rows per page
Search results (10)
Create or change
Add
New
Code *
Description *
Explanation

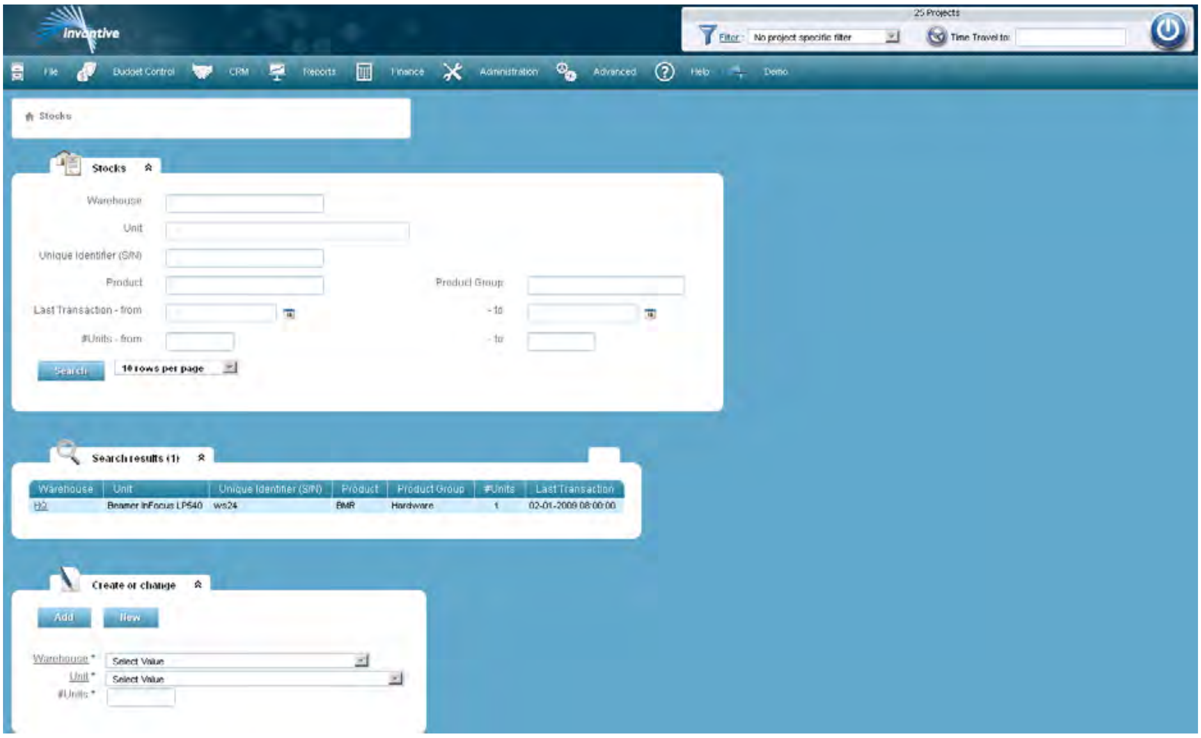
Code	Description	Explanation
Bancair	Bancaire producten	
HQ	Centraal warehouse	
K 03-VV-SZ	VW Transporter 2	
K 24-TS-VS	Mini Cooper	
K 41-VVH-6	VW Transporter 1	
N.v.t.	Niet van toepassing	
SLS	Verkoop (onzeker of levering nodig is)	
Str. Holland Railconsult	Strippenkaart Holland Railconsult	
Str. Huntec	Strippenkaart Huntec	
Str. Piet Klim	Strippenkaart Piet Klim	

The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the w arehouse.
Description	Description of the w arehouse.
Explanation	Remarks on the function and use of the w arehouse.

Stocks

In this screen you can register and change stocks.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Stocks
Stocks
Warehouse
Unit
Unique Identifier (S/N)
Product
Product Group
Last Transaction - from
- to
#Units - from
- to
Search
10 rows per page
Search results (1)
Create or change
Add
New
Warehouse *
Unit *
#Units *
Select Value
Select Value

Warehouse	Unit	Unique Identifier (S/N)	Product	Product Group	#Units	Last Transaction
HQ	Beamer InFocus LP540	ws24	BMR	Hardware	1	02-01-2009 08:00:00

The meaning of the entry fields is:

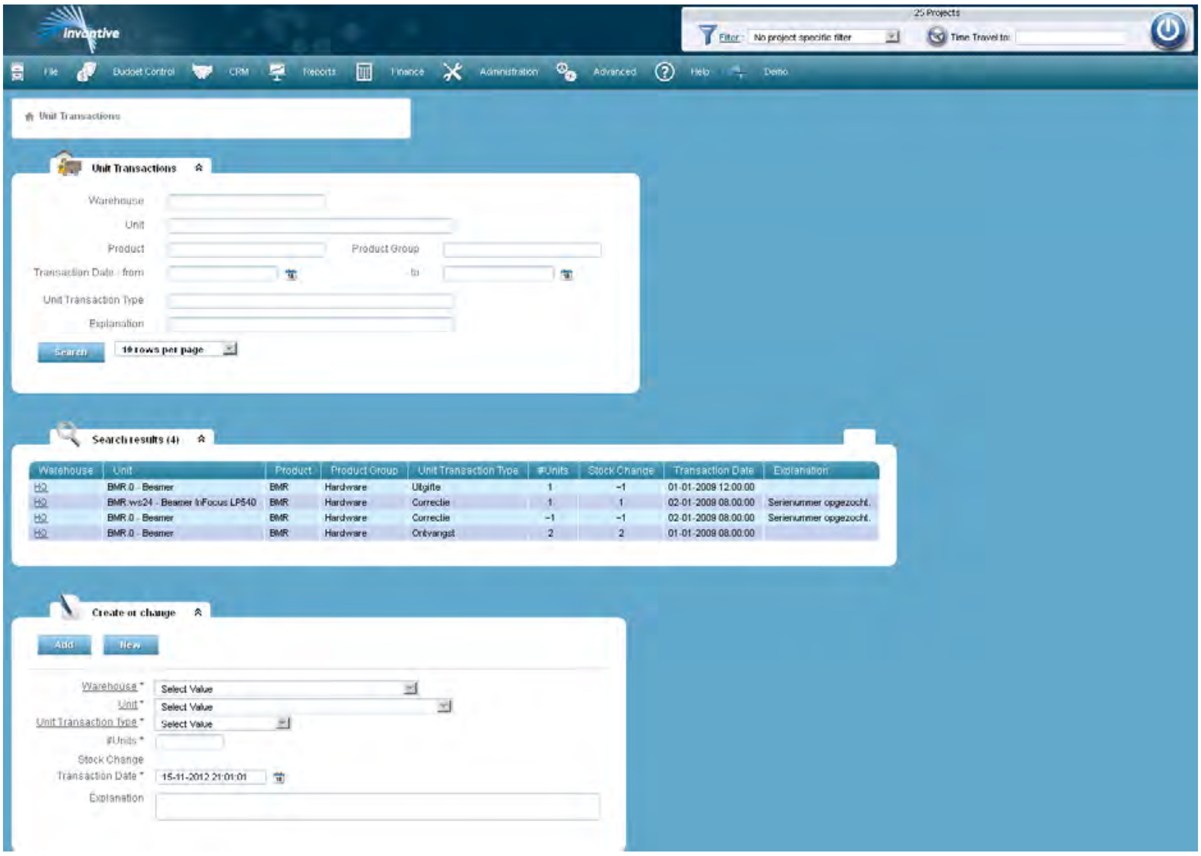
Stock	Reference to a warehouse of an Unit 15 as registered in Warehouses 204.
Unit	A unit is an independent object of a certain product (see also: Products 208 and Units 15).
#Units	The number of Units 15 in stock.

The meaning of the other fields:

Unique Identifier (SN)	The unique address, location or serial number of the Unit 15.
Product	Reference to Product 208.
Product group	Reference to the Product Group 207.
Last Transaction	Gives the date of the last transaction of the Unit 15. This may differ from the date of the last modification since the last transaction date is updated only when the transaction is recorded in the general ledger.

Unit Transactions

In this screen you can register and change unit transaction types.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Unit Transactions
Unit Transactions
Warehouse
Unit
Product
Product Group
Transaction Date - from
to
Unit Transaction Type
Explanation
Search
10 rows per page
Search results (4)
Create or change
Add
New

Warehouse	Unit	Product	Product Group	Unit Transaction Type	#Units	Stock Change	Transaction Date	Explanation
HQ	BMR.0 - Beamer	BMR	Hardware	Uitgifte	1	-1	01-01-2009 12:00:00	
HQ	BMR.ws24 - Beamer InFocus LP540	BMR	Hardware	Correctie	1	1	02-01-2009 08:00:00	Serienummer opgezocht.
HQ	BMR.0 - Beamer	BMR	Hardware	Correctie	-1	-1	02-01-2009 08:00:00	Serienummer opgezocht.
HQ	BMR.0 - Beamer	BMR	Hardware	Ontvangst	2	2	01-01-2009 08:00:00	

Warehouse * Select Value
Unit * Select Value
Unit Transaction Type * Select Value
#Units *
Stock Change
Transaction Date * 15-11-2012 21:01:01
Explanation

The meaning of the entry fields is:

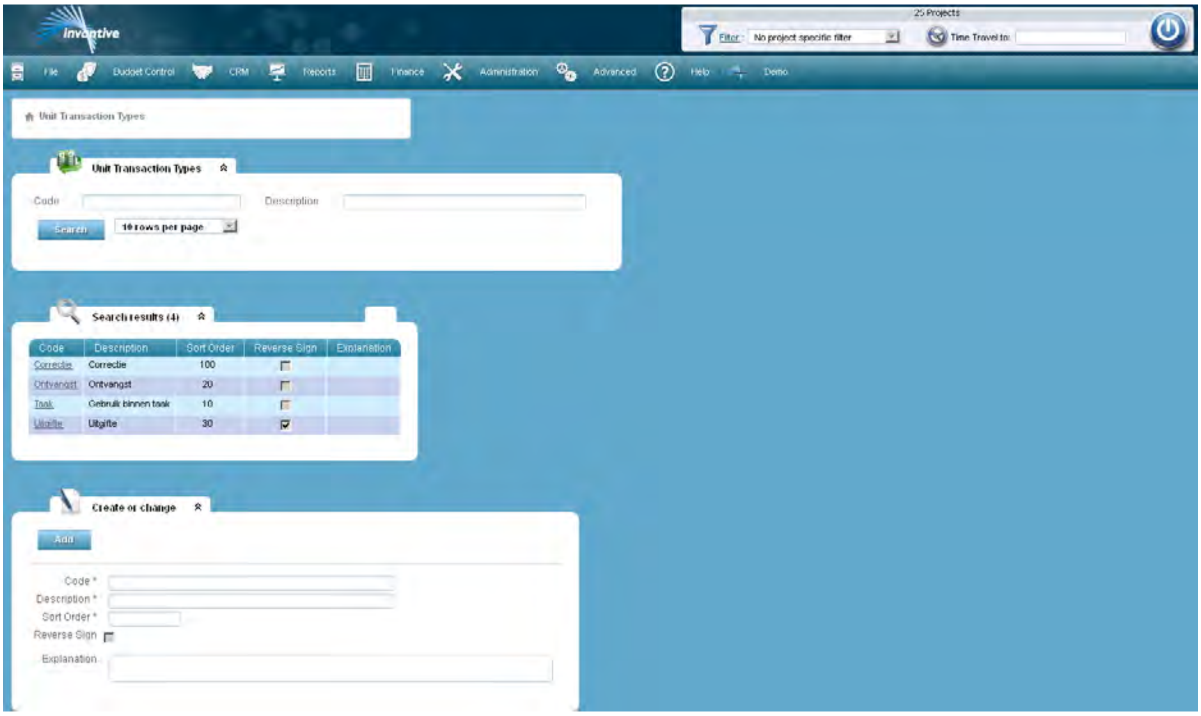
Stock	Reference to a warehouse of an Unit 151 as registered in Warehouses 204.
Unit	A unit is an independent object of a certain product (see also: Products 208 and Units 151).
Unit Transaction Type	Reference to a transaction type as registered in Unit Transaction Types 206.
#Units	The number of Units 151 involved in the transaction.
Transaction Date	The date the transaction took place.
Explanation	Possible explanation.

The meaning of the other fields:

Stock Change	The stock mutation in number of Units 151. This can be either a positive or a negative number depending on the selected Unit Transaction Type 206.

Unit Transaction Types

In this screen you can register and change unit transaction types.


Invantive
25 Projects
Filter
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Unit Transaction Types
Unit Transaction Types
Code
Description
Search
10 rows per page
Search results (4)
Create or change
Add
Code *
Description *
Sort Order *
Reverse Sign
Explanation

Code	Description	Sort Order	Reverse Sign	Explanation
Correctie	Correctie	100	☐	
Ontvangst	Ontvangst	20	☐	
Taak	Gebruik binnen taak	10	☐	
Uitgifte	Uitgifte	30	☑	

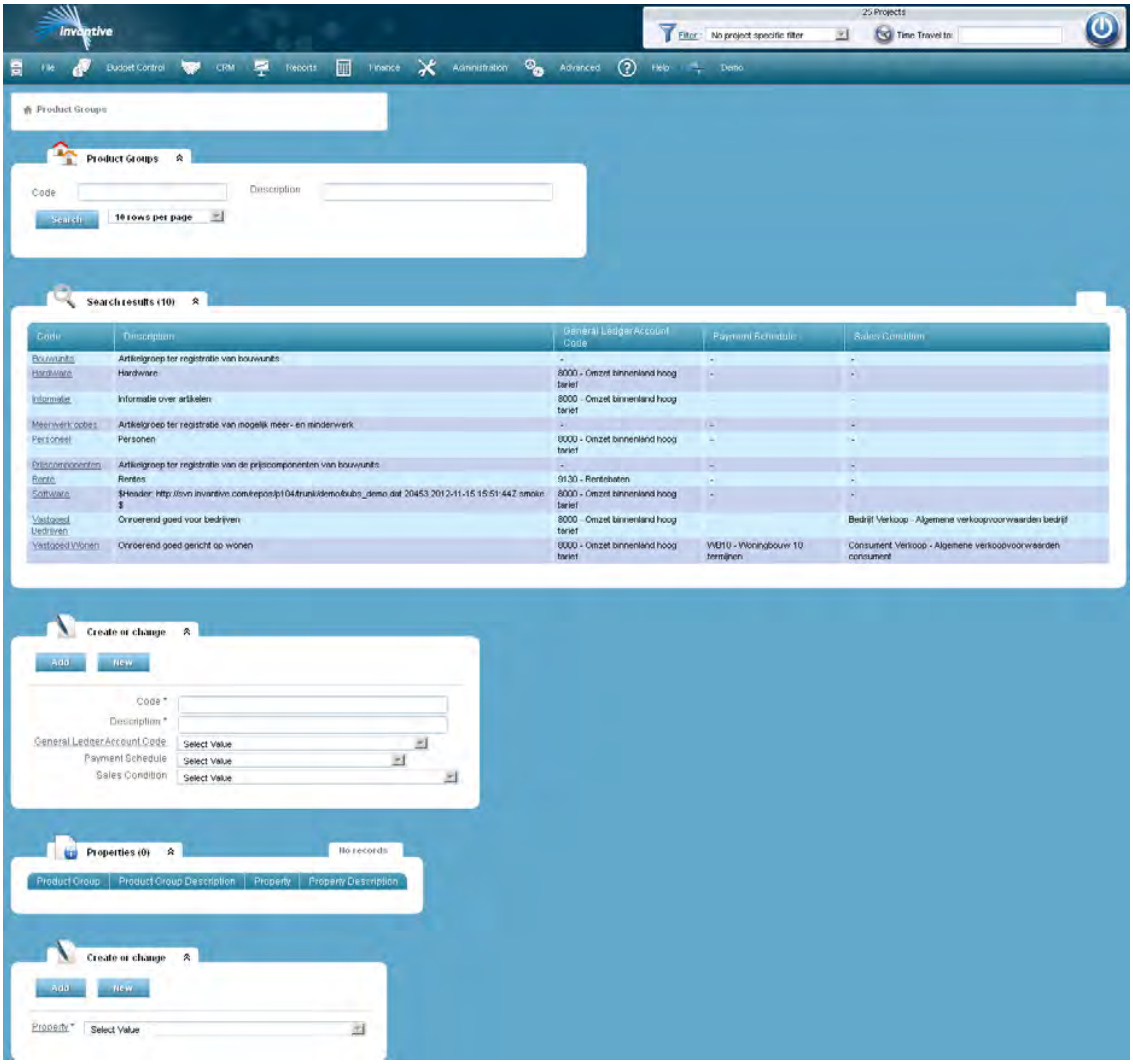
The meaning of the entry fields is:

Code	The unique code.
Description	The description used for displaying on reports and/or screens.
Sort Order	A numeric value on which the unit transaction types are sorted when they are shown in a list box in a screen.
Reverse Sign	Indicates that the sign of the transactions will be reversed when checked. For example: a positive amount of units involved in a transaction will result in a decrease in stock if this field is checked and in an increase if this field is not checked.
Explanation	Possible explanation.

Article Groups

In this form you can register and change product groups.

The classification of products in groups can serve different purposes such as; facilitating the retrieval of articles, performing similar operations on a particular product group and displaying information on a specific product group.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Product Groups
Product Groups
Code
Description
Search
10 rows per page
Search results (10)
Create or change
Add
New
Code *
Description *
General Ledger Account Code
Payment Schedule
Sales Condition
Select Value
Select Value
Select Value
Properties (0)
No records
Product Group
Product Group Description
Property
Property Description
Create or change
Add
New
Property *
Select Value

Code	Description	General Ledger Account Code	Payment Schedule	Sales Condition
Bouwunits	Artikelgroep ter registratie van bouwunits	-	-	-
Hardware	Hardware	8000 - Omzet binnenland hoog tarief	-	-
Informatie	Informatie over artikelen	8000 - Omzet binnenland hoog tarief		-
Meerwerk opties	Artikelgroep ter registratie van mogelijk meer- en minderwerk	-	-	-
Personeel	Personen	8000 - Omzet binnenland hoog tarief	-	-
Prijscomponenten	Artikelgroep ter registratie van de prijscomponenten van bouwunits	-	-	-
Rente	Rentes	9130 - Rentebaten	-	-
Software	$Header: http://svn.invantive.com/repos/p104/trunk/demo/bubs_demo.dat 20453 2012-11-15 15:51:44Z smoke $	8000 - Omzet binnenland hoog tarief	-	-
Vastgoed Bedrijven	Onroerend goed voor bedrijven	8000 - Omzet binnenland hoog tarief		Bedrijf Verkoop - Algemene verkoopvoorwaarden bedrijf
Vastgoed Wonen	Onroerend goed gericht op wonen	8000 - Omzet binnenland hoog tarief	WB10 - Woningbouw 10 termijnen	Consument Verkoop - Algemene verkoopvoorwaarden consument

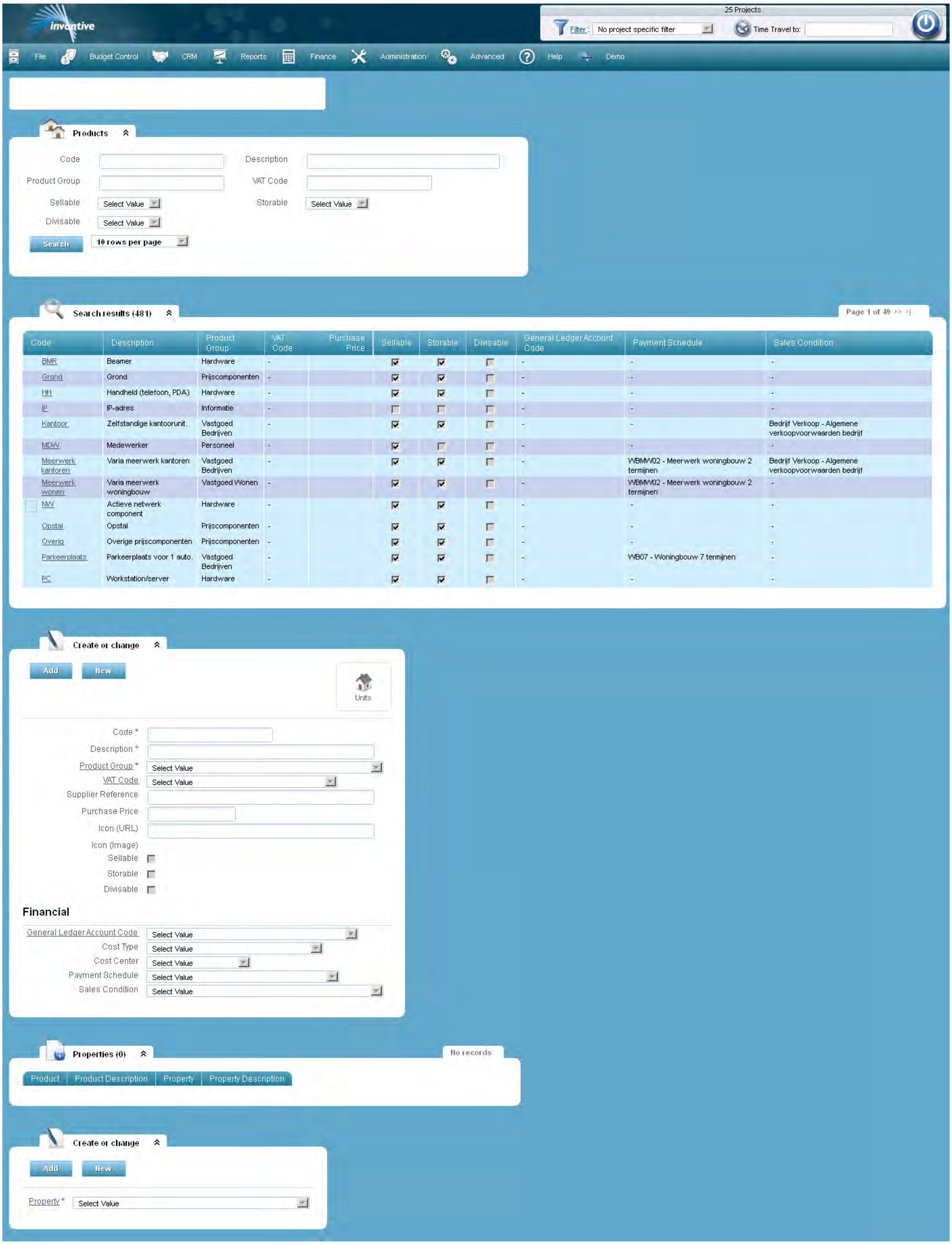
The meaning of the entry fields is:

Code	Unique code that identifies a product group.
Description	Description of the product group.
General Ledger Code	Reference to a general ledger code as registered in General Ledger Codes 193.

Product

In this screen you can register and edit products.

Products can have several roles within a project or within an organization. A product can be an end product, a half finished product, can be used as means of production or can fulfill a combination of these roles. A product can be both tangible and intangible.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Products
Code
Description
Product Group
VAT Code
Sellable
Select Value
Storable
Select Value
Divisable
Select Value
Search
10 rows per page
Search results (481)
Page 1 of 49 >> >|
Create or change
Add
New
Units
Code *
Description *
Product Group *
Select Value
VAT Code
Select Value
Supplier Reference
Purchase Price
Icon (URL)
Icon (Image)
Sellable
Storable
Divisable
Financial
General Ledger Account Code
Select Value
Cost Type
Select Value
Cost Center
Select Value
Payment Schedule
Select Value
Sales Condition
Select Value
Properties (0)
No records
Product
Product Description
Property
Property Description
Create or change
Add
New
Property *
Select Value

Code	Description	Product Group	VAT Code	Purchase Price	Sellable	Storable	Divisable	General Ledger Account Code	Payment Schedule	Sales Condition
BMR	Beamer	Hardware	-		☑	☑	☐	-	-	-
Grond	Grond	Prijscomponenten	-		☑	☑	☐	-	-	-
HH	Handheld (telefoon, PDA)	Hardware	-		☑	☑	☐	-	-	-
IP	IP-adres	Informatie	-		☐	☐	☐	-	-	-
Kantoor	Zelfstandige kantoorunit.	Vastgoed Bedrijven	-		☑	☑	☐	-	-	Bedrijf Verkoop - Algemene verkoopvoorwaarden bedrijf
MDW	Medewerker	Personeel	-		☑	☐	☐	-	-	-
Meerwerk kantoren	Varia meerwerk kantoren	Vastgoed Bedrijven	-		☑	☑	☐	-	WBMW02 - Meerwerk woningbouw 2 termijnen	Bedrijf Verkoop - Algemene verkoopvoorwaarden bedrijf
Meerwerk wonen	Varia meerwerk woningbouw	Vastgoed Wonen	-		☑	☑	☐	-	WBMW02 - Meerwerk woningbouw 2 termijnen	-
NW	Actieve netwerk component	Hardware	-		☑	☑	☐	-	-	-
Opstal	Opstal	Prijscomponenten	-		☑	☑	☐	-	-	-
Overig	Overige prijscomponenten	Prijscomponenten	-		☑	☑	☐	-	-	-
Parkeerplaats	Parkeerplaats voor 1 auto.	Vastgoed Bedrijven	-		☑	☑	☐	-	WB07 - Woningbouw 7 termijnen	-
PC	Workstation/server	Hardware	-		☑	☑	☐	-	-	-

The meaning of the entry fields is:

General	
Code	Unique alphanumeric code that identifies the product.
Description	Description of the product.
Product group	Reference to the Product Group 207.
VAT Code	The VAT code that applied to the product.
Supplier Reference	A unique feature by which the product is known to the supplier.

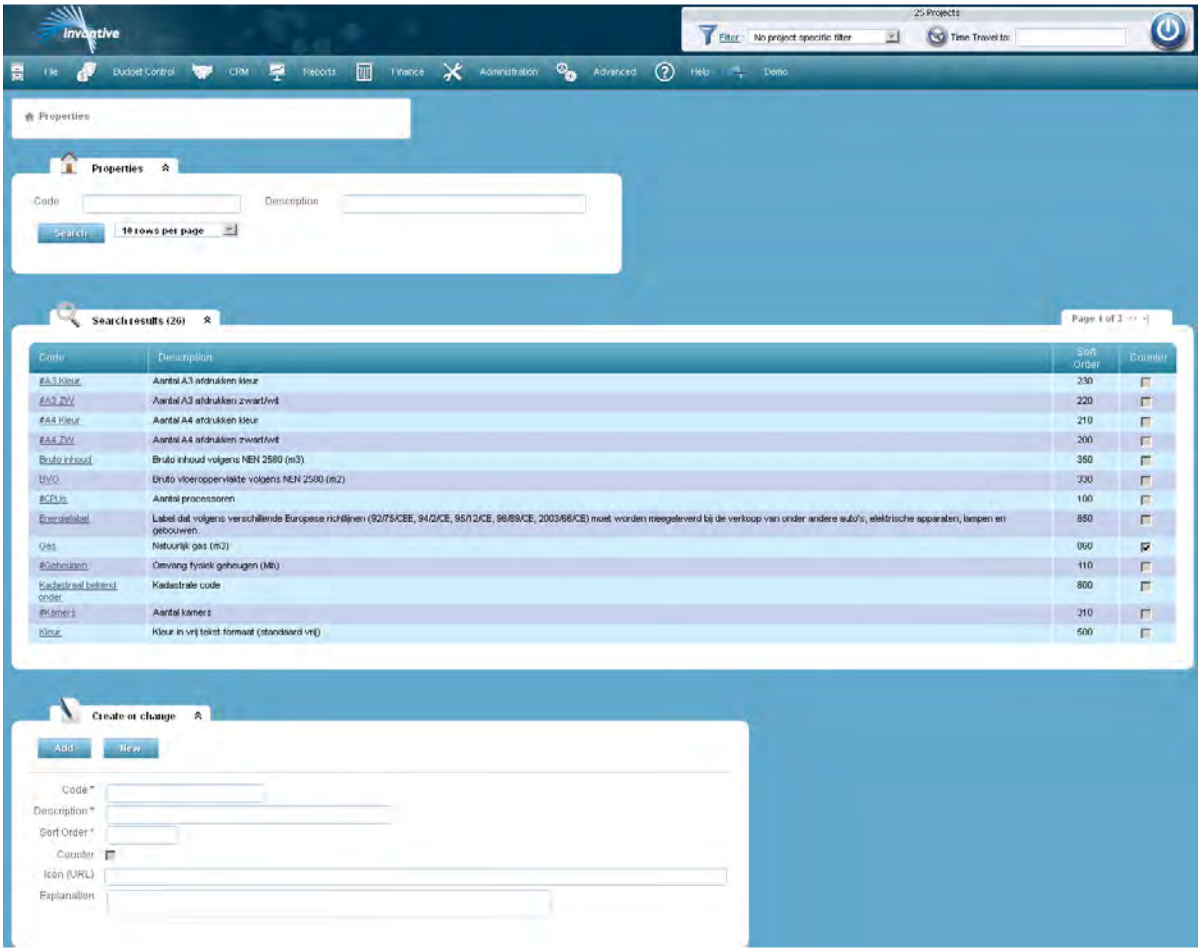
Redemption Price	The purchase price of the product.
Icon (URL)	The relative URL from the icon belonging to the product. The icon must be 16 pixels high and 16 pixels wide.
Sellable	Indicates if it is possible to sell the product.
Storeable	Indicates if it is possible to stock the product.
Splitable	Indicates if it is possible to split the product into separate parts.
Financial	
General Ledger Code	Reference to a general ledger code as registered in General Ledger Codes 193.
Properties	
Property	Reference to a propert as registered in Properties 210.

The meaning of the other fields:

Icon (Image)	Image of the product.

Properties

In this screen you can register and edit properties.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Properties
Properties
Code
Description
Search
10 rows per page
Search results (26)
Page 1 of 3
Create or change
Add
New
Code *
Description *
Sort Order *
Counter
Icon (URL)
Explanation

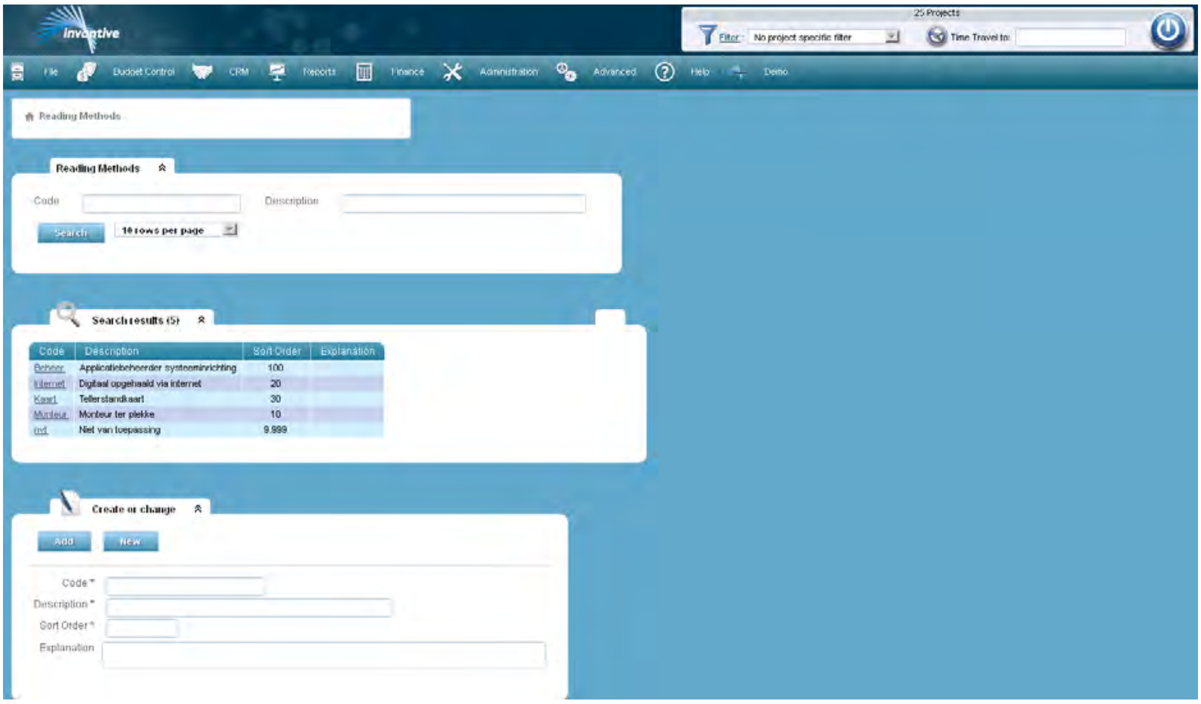
Code	Description	Sort Order	Counter
#A3 Kleur	Aantal A3 afdrukken kleur	230	☐
#A3 ZW	Aantal A3 afdrukken zwart/wit	220	☐
#A4 Kleur	Aantal A4 afdrukken kleur	210	☐
#A4 ZW	Aantal A4 afdrukken zwart/wit	200	☐
Bruto inhoud	Bruto inhoud volgens NEN 2580 (m3)	350	☐
BVO	Bruto vloeroppervlakte volgens NEN 2580 (m2)	330	☐
#CPUs	Aantal processoren	100	☐
Energielabel	Label dat volgens verschillende Europese richtlijnen (92/75/CEE, 94/2/CE, 95/12/CE, 96/89/CE, 2003/66/CE) moet worden meegeleverd bij de verkoop van onder andere auto's, elektrische apparaten, lampen en gebouwen.	850	☐
Gas	Natuurlijk gas (m3)	060	☑
#Geheugen	Omvang fysiek geheugen (Mb)	110	☐
Kadastraal bekend onder	Kadastrale code	800	☐
#Kamers	Aantal kamers	310	☐
Kleur	Kleur in vrij tekst formaat (standaard vrij)	500	☐

The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the property.
Description	Description of the property.
Sort Order	A numeric value on which the properties are sorted when they are displayed in a list box in a screen.
Counter	Indicator whether the property is a meter reading.
Explanation	Possible explanation.

Property Determination Methods

In this screen you can register and edit property determination methods.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Reading Methods
Reading Methods
Code
Description
Search
10 rows per page
Search results (5)
Create or change
Add
New
Code *
Description *
Sort Order *
Explanation

Code	Description	Sort Order	Explanation
Beheer	Applicatiebeheerder systeeminrichting	100	
Internet	Digitaal opgehaald via internet	20	
Kaart	Tellerstandkaart	30	
Monteur	Monteur ter plekke	10	
nvt	Niet van toepassing	9.999	

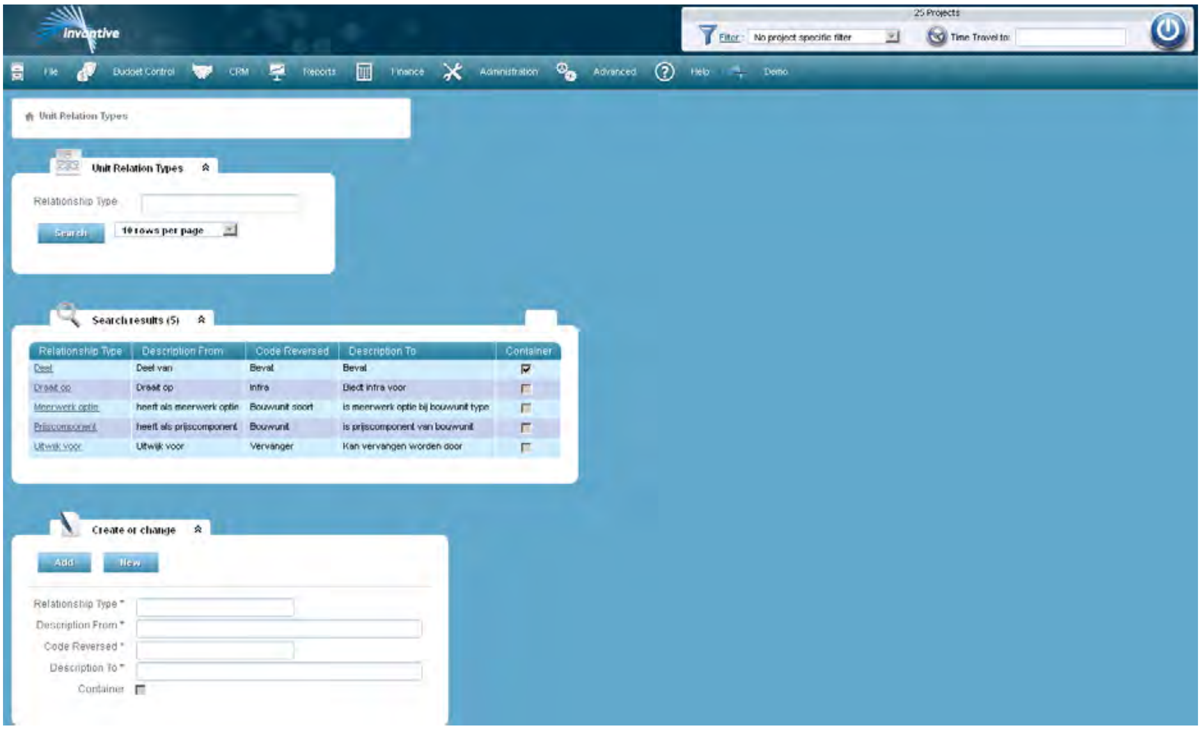
The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the property determination method.
Description	Description of the property determination method.
Sort Order	A numerical value on w hich the property determination methods are sorted if they are displayed in a list in a screen.
Explanation	Possible explanation.

Unit Relation Types

IIn this screen you can register and change unit relation types.

A unit relation type defines the relationship between units 151.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Unit Relation Types
Unit Relation Types
Relationship Type
Search
10 rows per page
Search results (5)
Create or change
Add
New
Relationship Type *
Description From *
Code Reversed *
Description To *
Container

Relationship Type	Description From	Code Reversed	Description To	Container
Deel	Deel van	Bevat	Bevat	☑
Draait op	Draait op	Infra	Biedt infra voor	☐
Meerwerk optie	heeft als meerwerk optie	Bouwunit soort	is meerwerk optie bij bouwunit type	☐
Prijscomponent	heeft als prijscomponent	Bouwunit	is prijscomponent van bouwunit	☐
Uitwijk voor	Uitwijk voor	Vervanger	Kan vervangen worden door	☐

The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the unit relation type as viewed from the perspective of the first party relation.
Description from	Description of the unit relation type as viewed from the start of the relationship.
Code Reversed	Unique alphanumeric code that identifies the unit relation type as viewed from the perspective of the second party relation.
Description to	Description of the unit relation type as viewed from the end of the relationship.
Container	When checked the start of the relationship is a container unit.

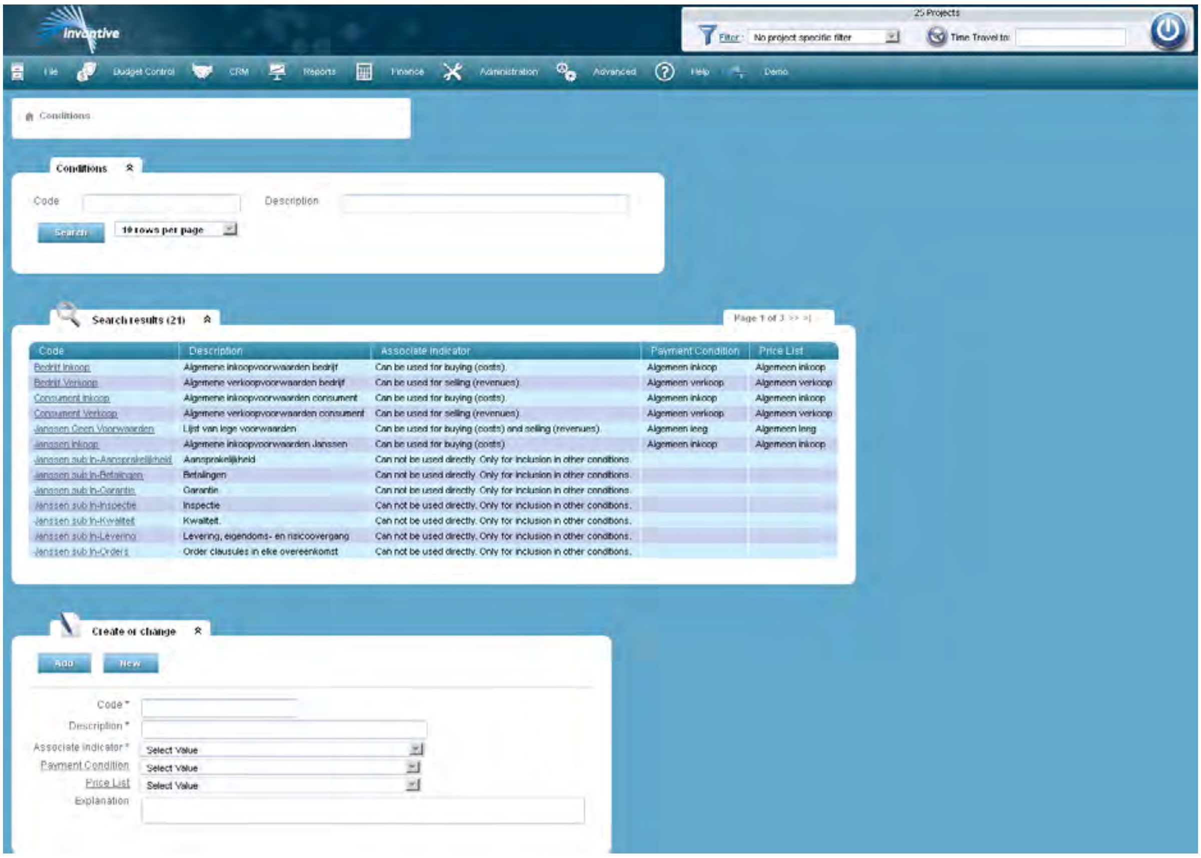
1.2.7.6 Contract Management

Contract management can be summarized as the process, that ensures that systematic and efficient contracts are created, implemented, and analyzed, with the aim to achieve maximum financial goals with a controlled and minimized risk percentage.

Conditions

This screen lets you record and conditions change.

Conditions can be used in the preparation of various types of contracts or are included in larger conditions. Conditions can refer to costs and revenues, only to costs or only to revenues.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Conditions
Conditions
Code
Description
Search
10 rows per page
Search results (21)
Page 1 of 3 >> >|
Create or change
Add
New
Code *
Description *
Associate indicator *
Payment Condition
Price List
Explanation
Select Value
Select Value
Select Value

Code	Description	Associate Indicator	Payment Condition	Price List
Bedrijf Inkoop	Algemene inkoopvoorwaarden bedrijf	Can be used for buying (costs).	Algemeen inkoop	Algemeen inkoop
Bedrijf Verkoop	Algemene verkoopvoorwaarden bedrijf	Can be used for selling (revenues).	Algemeen verkoop	Algemeen verkoop
Consument Inkoop	Algemene inkoopvoorwaarden consument	Can be used for buying (costs).	Algemeen inkoop	Algemeen inkoop
Consument Verkoop	Algemene verkoopvoorwaarden consument	Can be used for selling (revenues).	Algemeen verkoop	Algemeen verkoop
Janssen Geen Voorwaarden	Lijst van lege voorwaarden	Can be used for buying (costs) and selling (revenues).	Algemeen leeg	Algemeen leeg
Janssen Inkoop	Algemene inkoopvoorwaarden Janssen	Can be used for buying (costs).	Algemeen inkoop	Algemeen inkoop
Janssen sub In-Aansprakelijkheid	Aansprakelijkheid	Can not be used directly. Only for inclusion in other conditions.		
Janssen sub In-Betalingen	Betalingen	Can not be used directly. Only for inclusion in other conditions.		
Janssen sub In-Garantie	Garantie	Can not be used directly. Only for inclusion in other conditions.		
Janssen sub In-Inspectie	Inspectie	Can not be used directly. Only for inclusion in other conditions.		
Janssen sub In-Kwaliteit	Kwaliteit.	Can not be used directly. Only for inclusion in other conditions.		
Janssen sub In-Levering	Levering, eigendoms- en risicoovergang	Can not be used directly. Only for inclusion in other conditions.		
Janssen sub In-Orders	Order clausules in elke overeenkomst	Can not be used directly. Only for inclusion in other conditions.		

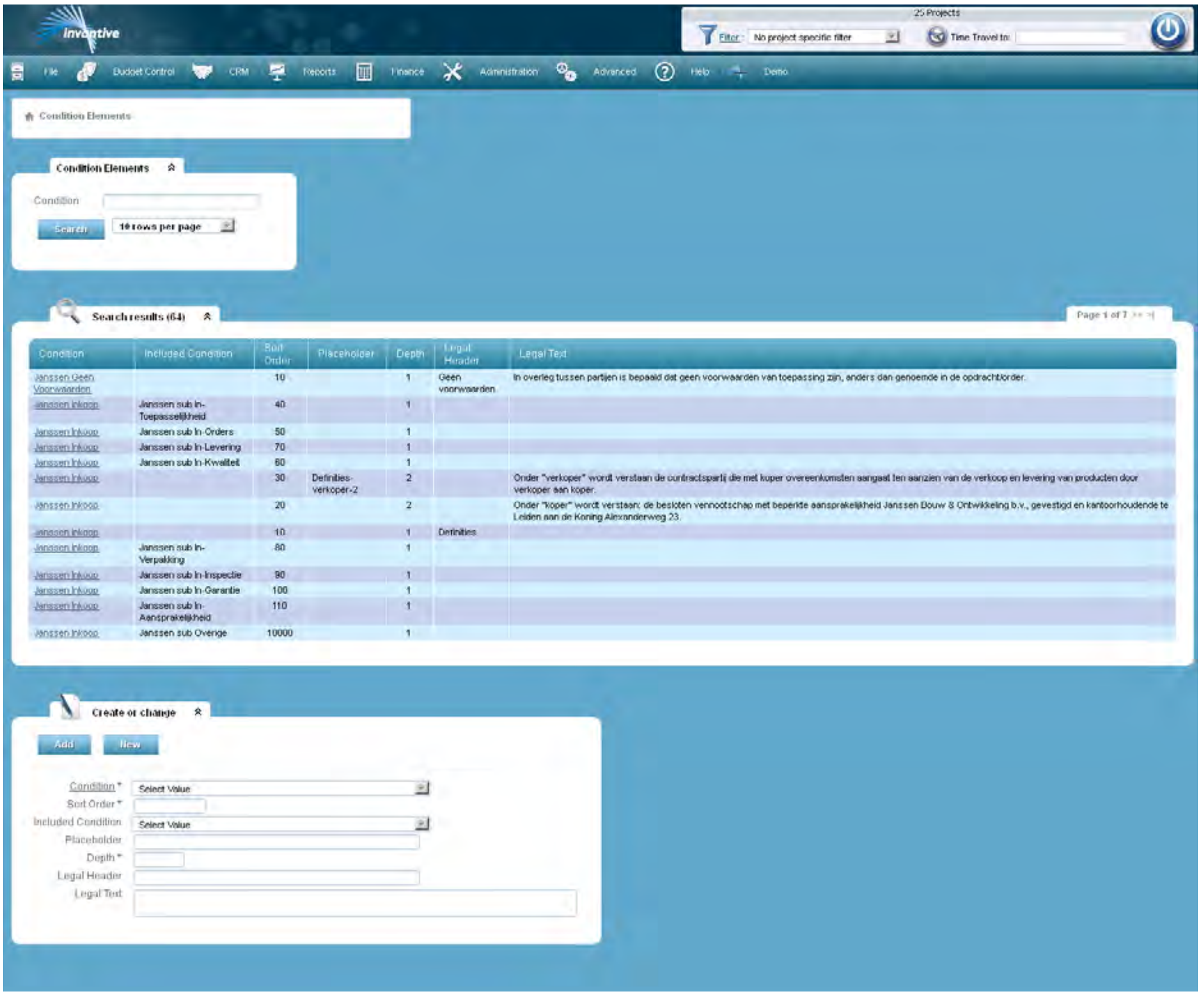
The meaning of the entry fields is:

Code	Unique alphanumeric code that identifies the condition.
Description	Description of the condition.
Associate Indicator	Indicator which shows how the condition can be used.
Payment Condition	Reference to a payment condition as registered in Payment Terms 215.
Price List	Reference to a price list as registered in Price Lists 180.
Explanation	Textual explanation of the condition.

Condition Elements

In this screen you can register and change condition elements.

Conditions elements are used in the preparation of conditions such as delivery or purchase conditions.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Condition Elements
Condition Elements
Condition
Search
10 rows per page
Search results (64)
Page 1 of 7
Create or change
Add
New
Condition *
Select Value
Sort Order *
Included Condition
Select Value
Placeholder
Depth *
Legal Header
Legal Text

Condition	Included Condition	Sort Order	Placeholder	Depth	Legal Header	Legal Text
Janssen Geen Voorwaarden		10		1	Geen voorwaarden	In overleg tussen partijen is bepaald dat geen voorwaarden van toepassing zijn, anders dan genoemde in de opdracht/order.
Janssen Inkoop	Janssen sub In-Toepasselijkheid	40		1		
Janssen Inkoop	Janssen sub In-Orders	50		1		
Janssen Inkoop	Janssen sub In-Levering	70		1		
Janssen Inkoop	Janssen sub In-Kwaliteit	60		1		
Janssen Inkoop		30	Definities-verkoper-2	2		Onder "verkoper" wordt verstaan de contractspartij die met koper overeenkomsten aangaat ten aanzien van de verkoop en levering van producten door verkoper aan koper.
Janssen Inkoop		20		2		Onder "koper" wordt verstaan: de besloten vennootschap met beperkte aansprakelijkheid Janssen Bouw & Ontwikkeling b.v., gevestigd en kantoorhoudende te Leiden aan de Koning Alexanderweg 23.
Janssen Inkoop		10		1	Definities	
Janssen Inkoop	Janssen sub In-Verpakking	80		1		
Janssen Inkoop	Janssen sub In-Inspectie	90		1		
Janssen Inkoop	Janssen sub In-Garantie	100		1		
Janssen Inkoop	Janssen sub In-Aansprakelijkheid	110		1		
Janssen Inkoop	Janssen sub Overige	10000		1		

The meaning of the entry fields is:

Condition	Reference to a condition as registered in Conditions 212.
Sort Order	A numeric value on which the condition elements are sorted when they are shown in a list box in a screen.
Placeholder	This is the code of a 'placeholder', representing a condition element. When a contract is issued, the condition element can be inserted using this code. These 'placeholder's codes' can be reused in other clauses by inserting in the text the << NAME OF THE PLACEHOLDER>>.
Depth	Indicates at what level the condition element is included in the contract.
Legal Header	The header of the condition element.
Legal Text	The text of the condition element.

The meaning of the other fields:

Code	Unique alphanumeric code that identifies the condition element.

Conditions.pdf

This report shows the text of the in Invantive Estate registered conditions 212.

Invantive Estate

Settings: system, EUR, Year, Current situation
Function: bubs_cdi_pdf_rpt

Conditions

Invantive Vision

Powered by Invantive

Condition	Bedrijf Inkoop
Description	Algemene inkoopvoorwaarden bedrijf
Associate Indicator	Can be used for buying (costs).

15-11-2012 20:44

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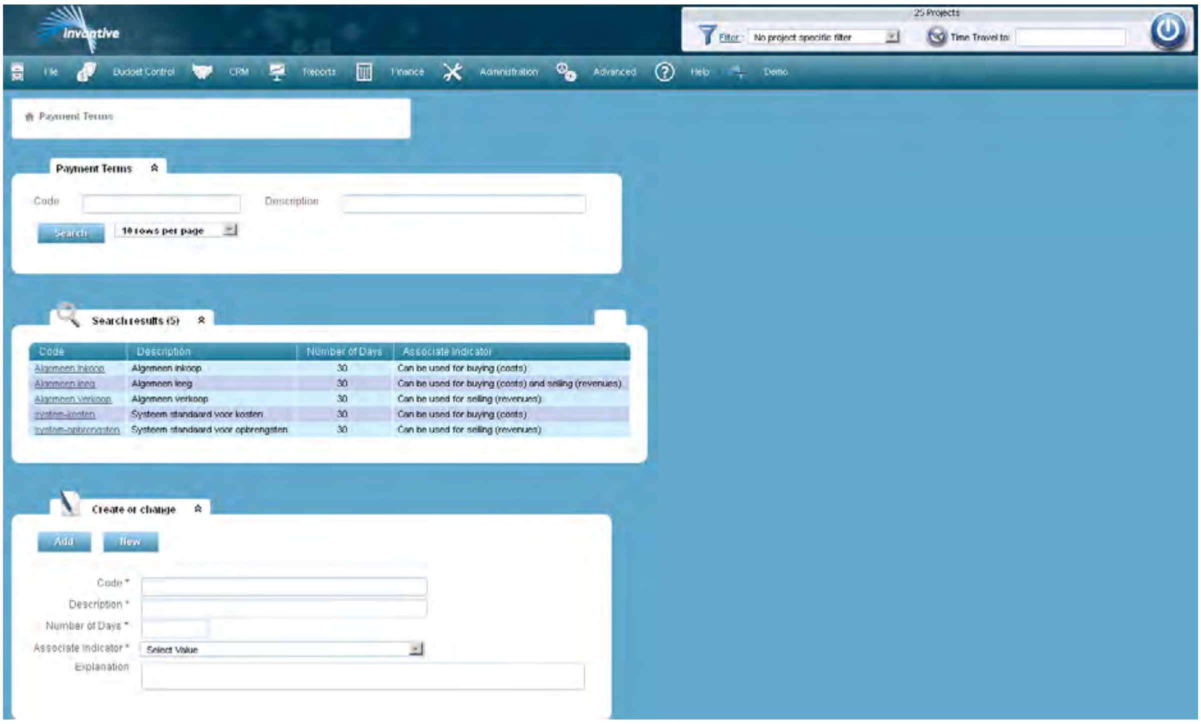
invantive

Payment Terms

This screen allows you to record and modify payment terms.

A payment term is the agreed time period within which a bill must be paid.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Payment Terms
Payment Terms
Code
Description
Search
10 rows per page
Search results (5)
Create or change
Add
New
Code *
Description *
Number of Days *
Associate Indicator *
Select Value
Explanation

Code	Description	Number of Days	Associate Indicator
Algemeen inkoop	Algemeen inkoop	30	Can be used for buying (costs)
Algemeen leeg	Algemeen leeg	30	Can be used for buying (costs) and selling (revenues)
Algemeen verkoop	Algemeen verkoop	30	Can be used for selling (revenues)
system-kosten	Systeem standaard voor kosten	30	Can be used for buying (costs)
system-opbrengsten	Systeem standaard voor opbrengsten	30	Can be used for selling (revenues)

The meaning of the entry fields is:

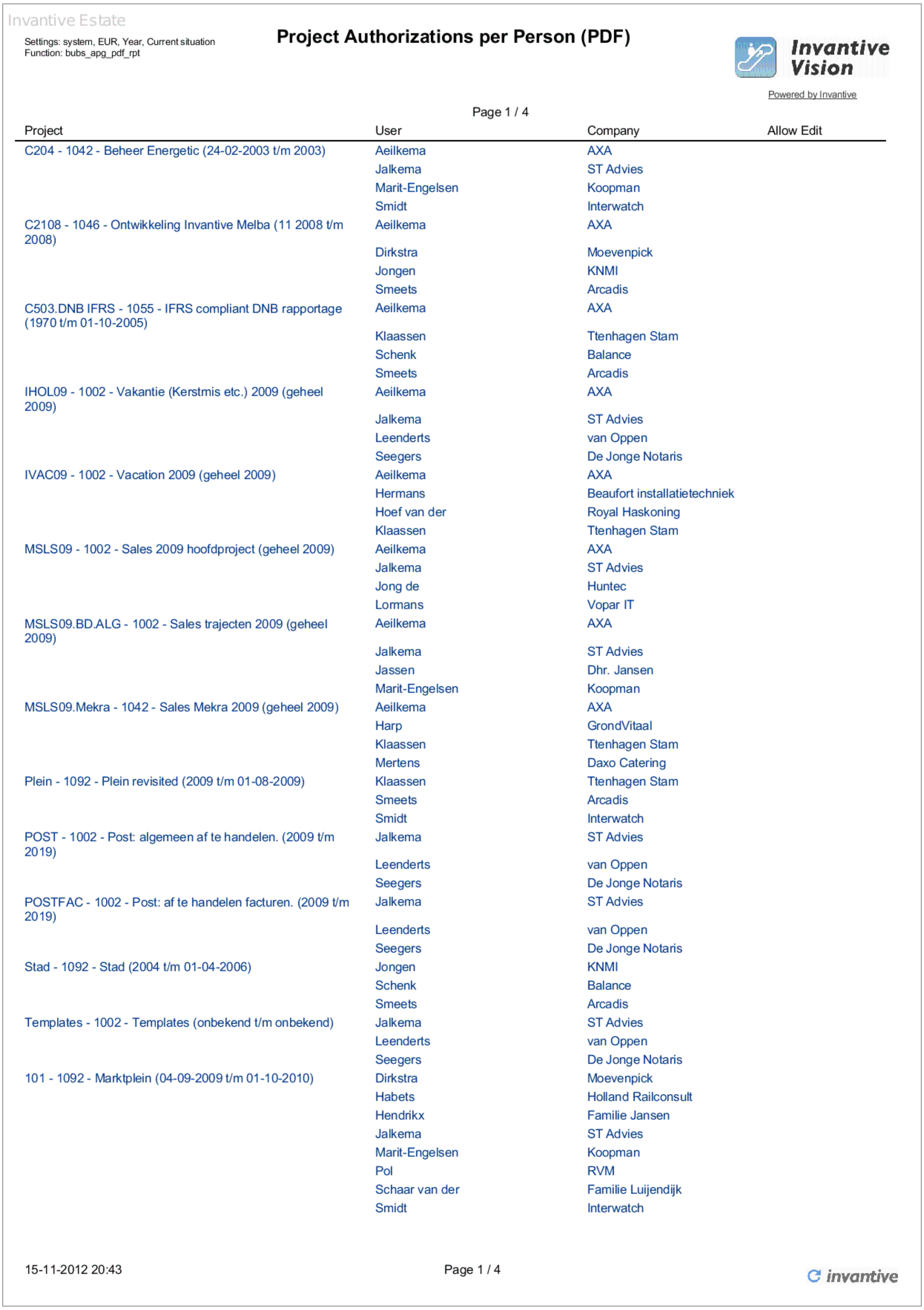
Code	The unique code of the payment term.
Description	The description of the payment term.
Number of Days	Number of days of the payment term.
Associate Indicator	Indicates the use of the payment term.

1.2.7.7 Audit

With the functions included in the submenu ‘Audit’, the user activity within <% PRODUCT% > can be checked.

Project Authorizations per Person

The first part of this report provides an overview of the authorization that a user has on the various projects. The second part of this report shows which users have access to all projects.



Invantive Estate

Settings: system, EUR, Year, Current situation
Function: bubs_apg_pdf_rpt

Project Authorizations per Person (PDF)

Page 1 / 4

Project	User	Company	Allow Edit
C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003)	Aeilkema	AXA	
	Jalkema	ST Advies	
	Marit-Engelsen	Koopman	
	Smidt	Interwatch	
C2108 - 1046 - Ontwikkeling Invantive Melba (11 2008 t/m 2008)	Aeilkema	AXA	
	Dirkstra	Moevenpick	
	Jongen	KNMI	
	Smeets	Arcadis	
C503.DNB IFRS - 1055 - IFRS compliant DNB rapportage (1970 t/m 01-10-2005)	Aeilkema	AXA	
	Klaassen	Ttenhagen Stam	
	Schenk	Balance	
	Smeets	Arcadis	
IHOL09 - 1002 - Vakantie (Kerstmis etc.) 2009 (geheel 2009)	Aeilkema	AXA	
	Jalkema	ST Advies	
	Leenderts	van Oppen	
	Seegers	De Jonge Notaris	
IVAC09 - 1002 - Vacation 2009 (geheel 2009)	Aeilkema	AXA	
	Hermans	Beaufort installatietechniek	
	Hoef van der	Royal Haskoning	
	Klaassen	Ttenhagen Stam	
MSLS09 - 1002 - Sales 2009 hoofdproject (geheel 2009)	Aeilkema	AXA	
	Jalkema	ST Advies	
	Jong de	Huntec	
	Lormans	Vopar IT	
MSLS09.BD.ALG - 1002 - Sales trajecten 2009 (geheel 2009)	Aeilkema	AXA	
	Jalkema	ST Advies	
	Jassen	Dhr. Jansen	
	Marit-Engelsen	Koopman	
MSLS09.Mekra - 1042 - Sales Mekra 2009 (geheel 2009)	Aeilkema	AXA	
	Harp	GrondVitaal	
	Klaassen	Ttenhagen Stam	
	Mertens	Daxo Catering	
Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)	Klaassen	Ttenhagen Stam	
	Smeets	Arcadis	
	Smidt	Interwatch	
POST - 1002 - Post: algemeen af te handelen. (2009 t/m 2019)	Jalkema	ST Advies	
	Leenderts	van Oppen	
	Seegers	De Jonge Notaris	
POSTFAC - 1002 - Post: af te handelen facturen. (2009 t/m 2019)	Jalkema	ST Advies	
	Leenderts	van Oppen	
	Seegers	De Jonge Notaris	
Stad - 1092 - Stad (2004 t/m 01-04-2006)	Jongen	KNMI	
	Schenk	Balance	
	Smeets	Arcadis	
Templates - 1002 - Templates (onbekend t/m onbekend)	Jalkema	ST Advies	
	Leenderts	van Oppen	
	Seegers	De Jonge Notaris	
101 - 1092 - Marktplein (04-09-2009 t/m 01-10-2010)	Dirkstra	Moevenpick	
	Habets	Holland Railconsult	
	Hendrikx	Familie Jansen	
	Jalkema	ST Advies	
	Marit-Engelsen	Koopman	
	Pol	RVM	
	Schaar van der	Familie Luijendijk	
	Smidt	Interwatch	

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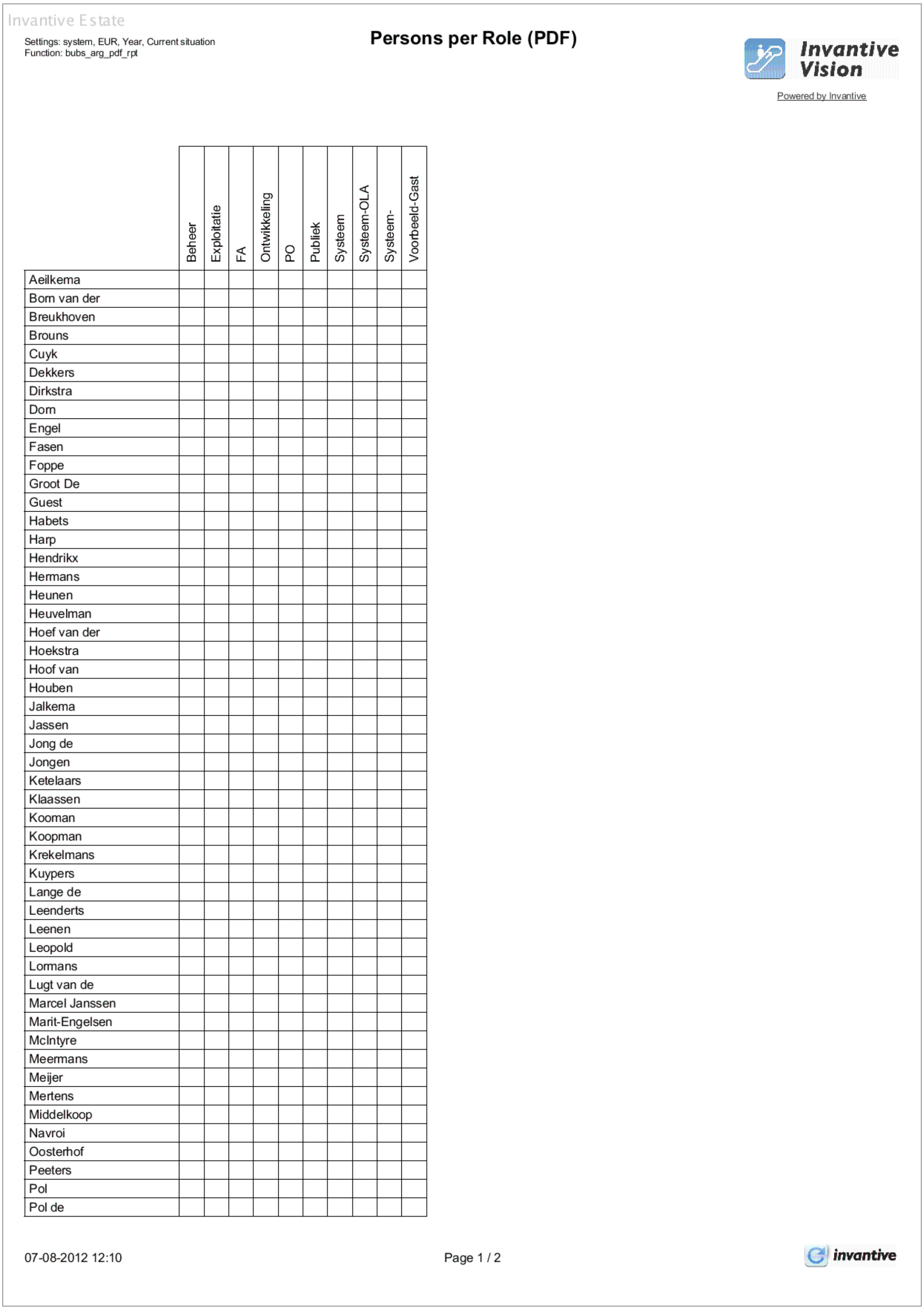
Persons per Role

This report shows which Roles 158 are assigned to Persons 97.



Invantive Estate

Settings: system, EUR, Year, Current situation
Function: bubs_arg_pdf_rpt

Persons per Role (PDF)

Invantive Vision

Powered by Invantive

	Beheer	Exploitatie	FA	Ontwikkeling	PO	Publiek	Systeem	Systeem-OLA	Systeem-	Voorbeeld-Gast
Aeilkema										
Born van der										
Breukhoven										
Brouns										
Cuyk										
Dekkers										
Dirkstra										
Dorn										
Engel										
Fasen										
Foppe										
Groot De										
Guest										
Habets										
Harp										
Hendrikx										
Hermans										
Heunen										
Heuvelman										
Hoef van der										
Hoekstra										
Hoof van										
Houben										
Jalkema										
Jassen										
Jong de										
Jongen										
Ketelaars										
Klaassen										
Kooman										
Koopman										
Krekelmans										
Kuypers										
Lange de										
Leenderts										
Leenen										
Leopold										
Lormans										
Lugt van de										
Marcel Janssen										
Marit-Engelsen										
McIntyre										
Meermans										
Meijer										
Mertens										
Middelkoop										
Navroi										
Oosterhof										
Peeters										
Pol										
Pol de										

07-08-2012 12:10

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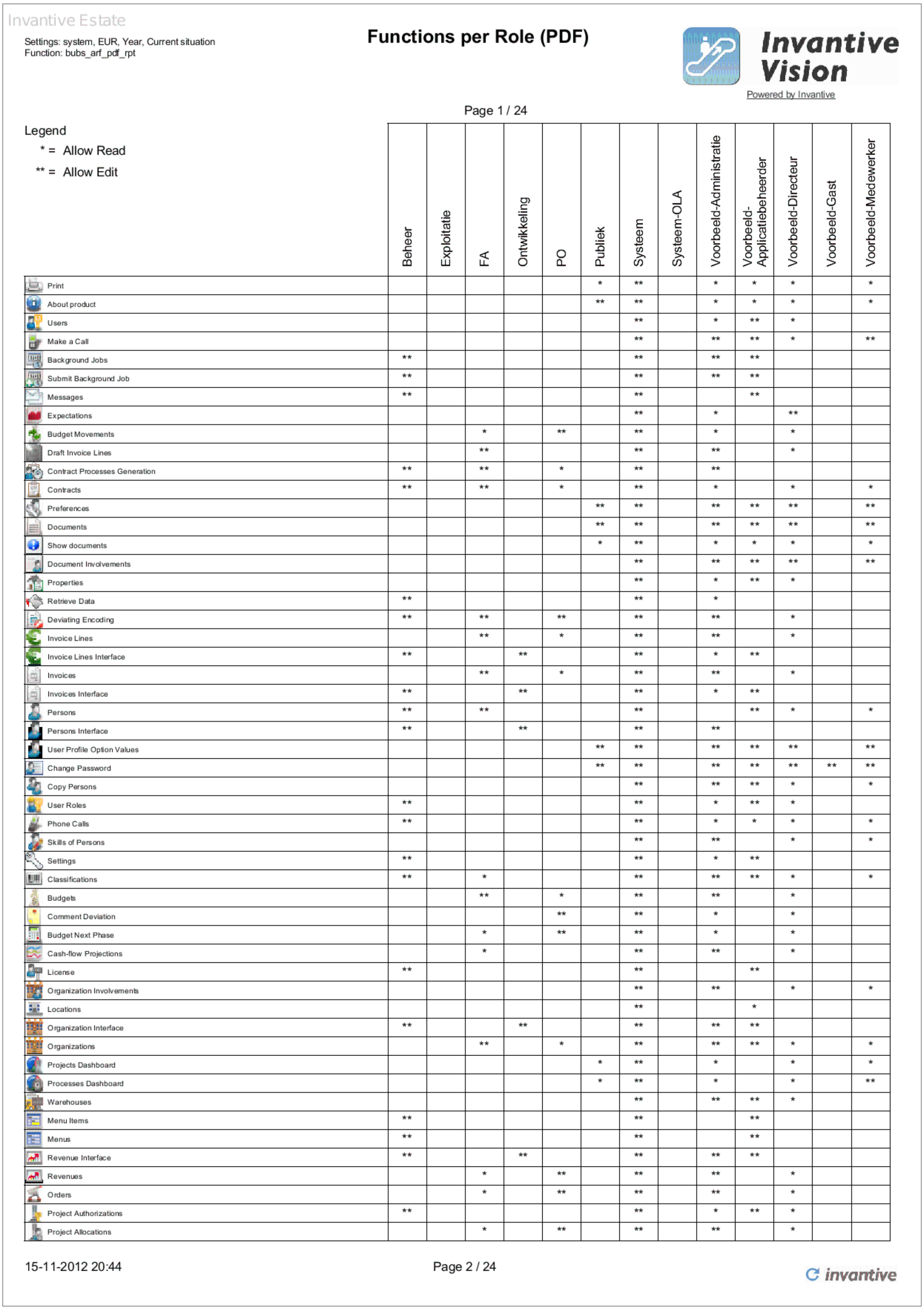
invantive

Functions per Role

This report shows at which functions authorisations are assigned to Roles 158.

1 star = read;

2 stars = read and write.



Invantive Estate

Settings: system, EUR, Year, Current situation
Function: bubs_arf_pdf_rpt

Functions per Role (PDF)

Invantive Vision
Powered by Invantive

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Legend
* = Allow Read
** = Allow Edit

	Beheer	Exploitatie	FA	Ontwikkeling	PO	Publiek	Systeem	Systeem-OLA	Voorbeeld-Administratie	Voorbeeld-Applicatiebeheerder	Voorbeeld-Directeur	Voorbeeld-Gast	Voorbeeld-Medewerker
Print						*	**		*	*	*		*
About product						**	**		*	*	*		*
Users							**		*	**	*		
Make a Call							**		**	**	*		**
Background Jobs	**						**		**	**			
Submit Background Job	**						**		**	**			
Messages	**						**			**			
Expectations							**		*		**		
Budget Movements			*		**		**		*		*		
Draft Invoice Lines			**				**		**		*		
Contract Processes Generation	**		**		*		**		**				
Contracts	**		**		*		**		*		*		*
Preferences						**	**		**	**	**		**
Documents						**	**		**	**	**		**
Show documents						*	**		*	*	*		*
Document Involvements							**		**	**	**		**
Properties							**		*	**	*		
Retrieve Data	**						**		*				
Deviating Encoding	**		**		**		**		**		*		
Invoice Lines			**		*		**		**		*		
Invoice Lines Interface	**			**			**		*	**			
Invoices			**		*		**		**		*		
Invoices Interface	**			**			**		*	**			
Persons	**		**				**			**	*		*
Persons Interface	**			**			**		**				
User Profile Option Values						**	**		**	**	**		**
Change Password						**	**		**	**	**	**	**
Copy Persons							**		**	**	*		*
User Roles	**						**		*	**	*		
Phone Calls	**						**		*	*	*		*
Skills of Persons							**		**		*		*
Settings	**						**		*	**			
Classifications	**		*				**		**	**	*		*
Budgets			**		*		**		**		*		
Comment Deviation					**		**		*		*		
Budget Next Phase			*		**		**		*		*		
Cash-flow Projections			*				**		**		*		
License	**						**			**			
Organization Involvements							**		**		*		*
Locations							**			*			
Organization Interface	**			**			**		**	**			
Organizations			**		*		**		**	**	*		*
Projects Dashboard						*	**		*		*		*
Processes Dashboard						*	**		*		*		**
Warehouses							**		**	**	*		
Menu Items	**						**			**			
Menus	**						**			**			
Revenue Interface	**			**			**		**	**			
Revenues			*		**		**		**		*		
Orders			*		**		**		**		*		
Project Authorizations	**						**		*	**	*		
Project Allocations			*		**		**		**		*		

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1.2.8 Advanced

Enter text here.

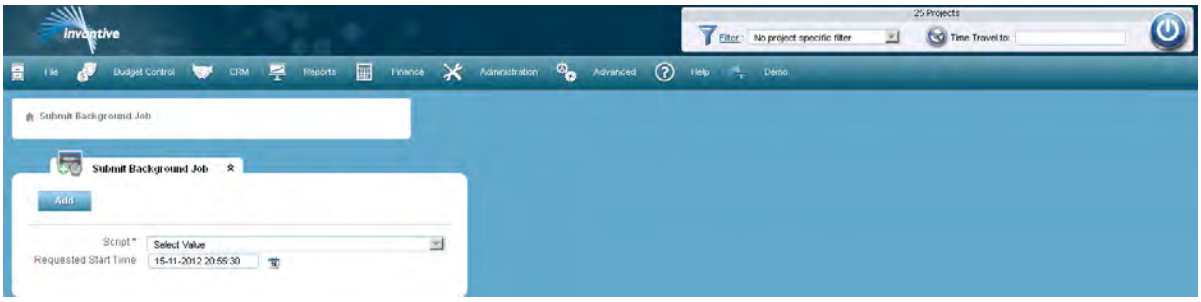
1.2.8.1 Background Jobs

Enter text here.

Submit Background Job

In this screen you can request background processes.

A background job is a program that is processed centrally, without requiring a logged on user. Background jobs are used for repetitive or time consuming processes. The number of background processes running simultaneously is limited. See also Submit Background Job 220, Background Scripts 314 and Background Schedulers 222.


Invantive
25 Projects
Filter :
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Add

Submit Background Job

Submit Background Job

Filter : No project specific filter

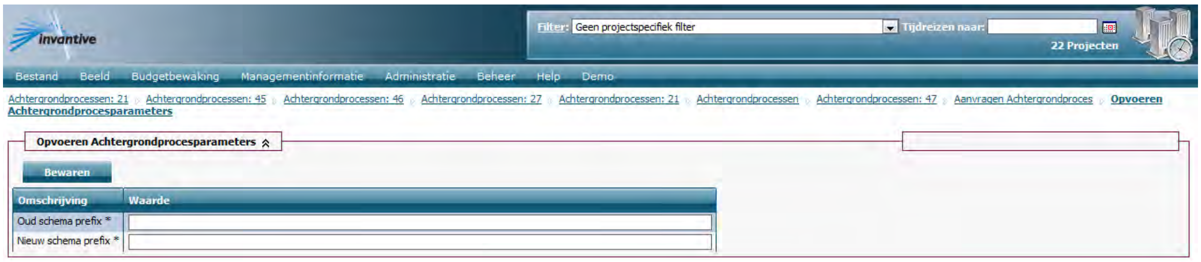
Script * Select Value

Requested Start Time 15-11-2012 20:55:30

The meaning of the entry fields is:

Script	The background script being requested.
Requested Start Time	The first possible point in time at which the user wants the background job to be executed.

Together with this screen a second screen will open if parameters are needed for processing. In the example below you are asked to enter an ‘Old prefix schema’ and a ‘New prefix schema prefix’:


invantive
22 Projecten
Bestand
Beeld
Budgetbewaking
Managementinformatie
Administratie
Beheer
Help
Demo
Bewaren

Filter: Geen projectspecifiek filter

Tijdreizen naar:

Achtergrondprocessen: 21 › Achtergrondprocessen: 45 › Achtergrondprocessen: 46 › Achtergrondprocessen: 27 › Achtergrondprocessen: 21 › Achtergrondprocessen › Achtergrondprocessen: 47 › Aanvragen Achtergrondproces › **Opvoeren Achtergrondprocesparameters**

Opvoeren Achtergrondprocesparameters

Omschrijving	Waarde
Oud schema prefix *	
Nieuw schema prefix *	

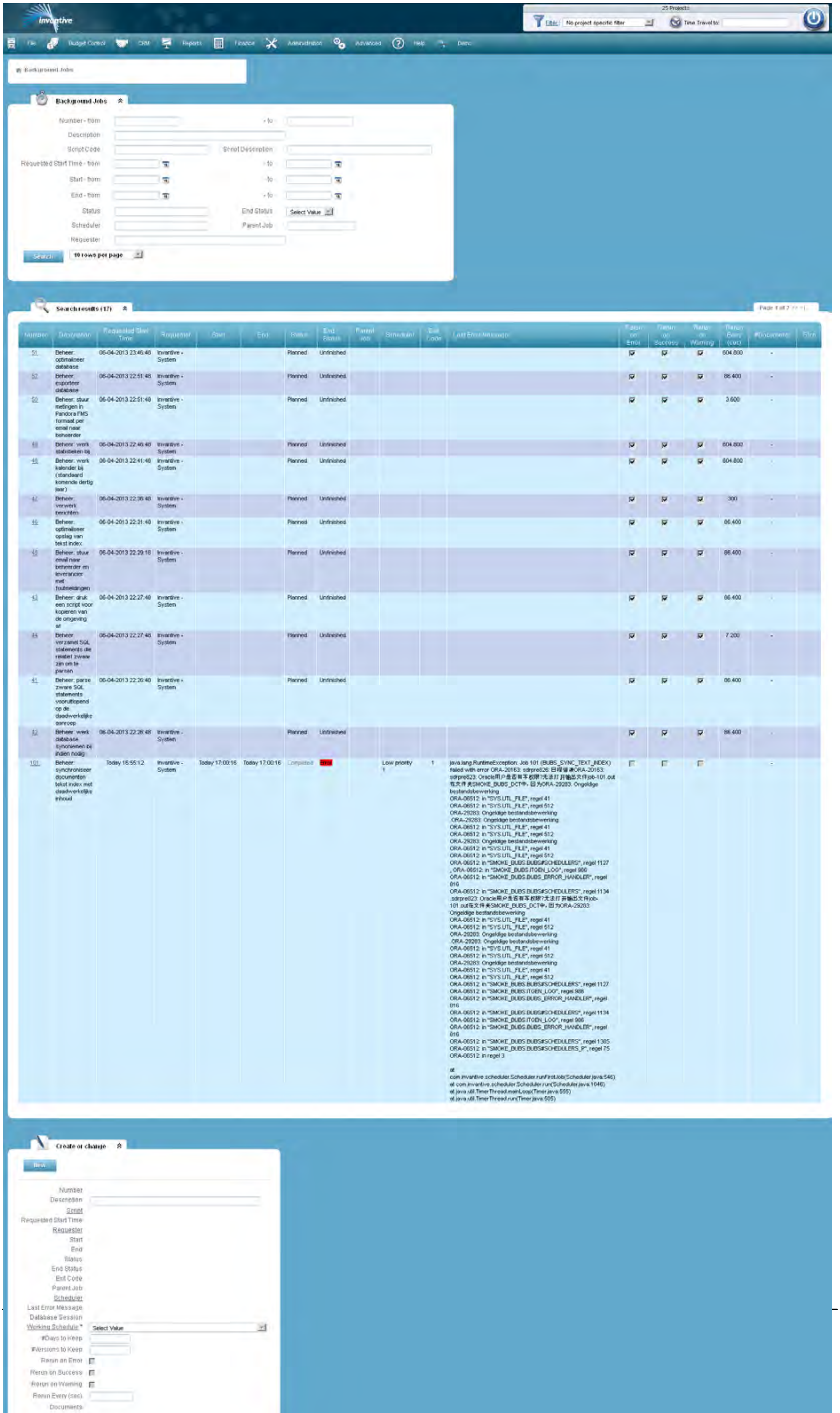
The meaning of the entry fields is:

Old prefix schema	The prefix of the old schema.
New prefix schema	The prefix of the new schema.

Background Jobs

In this screen you can follow the status of background processes.

A background job is a program that is processed centrally, without requiring a logged on user. Background jobs are used for repetitive or time consuming processes. Background jobs automatically get less priority if multiple users are simultaneously active. The turnaround time may therefore change. See also Submit Background Job 220, Background Scripts 314 and Background Schedulers 222.



Background Jobs

Number - from: - to:
Description:
Script Code: Script Description:
Requested Start Time - from: - to:
Start - from: - to:
End - from: - to:
Status: End Status: Select Value
Scheduler: Parent Job:
Requester:
10 rows per page

Search results (17)

Number	Description	Requested Start Time	Requester	Start	End	Status	End Status	Parent Job	Scheduler	Exit Code	Last Error Message	Rerun on Error	Rerun on Success	Rerun on Warning	Rerun Every (sec)	#Documents	Size
51	Beheer: optimaliseer database	06-04-2013 23:46:48	Invantive - System			Planned	Unfinished					☑	☑	☑	604.800	-	
52	Beheer: exporteer database	06-04-2013 22:51:48	Invantive - System			Planned	Unfinished					☑	☑	☑	86.400	-	
50	Beheer: stuur metingen in Pandora FMS formaat per email naar beheerder	06-04-2013 22:51:48	Invantive - System			Planned	Unfinished					☑	☑	☑	3.600	-	
49	Beheer: werk statistieken bij	06-04-2013 22:46:48	Invantive - System			Planned	Unfinished					☑	☑	☑	604.800	-	
48	Beheer: werk kalender bij (standaard komende dertig jaar)	06-04-2013 22:41:48	Invantive - System			Planned	Unfinished					☑	☑	☑	604.800	-	
47	Beheer: verwerk berichten	06-04-2013 22:36:48	Invantive - System			Planned	Unfinished					☑	☑	☑	300	-	
46	Beheer: optimaliseer opslag van tekst index	06-04-2013 22:31:48	Invantive - System			Planned	Unfinished					☑	☑	☑	86.400	-	
45	Beheer: stuur email naar beheerder en leverancier met foutmeldingen	06-04-2013 22:29:18	Invantive - System			Planned	Unfinished					☑	☑	☑	86.400	-	
43	Beheer: druk een script voor kopieren van de omgeving af	06-04-2013 22:27:48	Invantive - System			Planned	Unfinished					☑	☑	☑	86.400	-	
44	Beheer: verzamel SQL statements die relatief zwaar zijn om te parsen	06-04-2013 22:27:48	Invantive - System			Planned	Unfinished					☑	☑	☑	7.200	-	
41	Beheer: parse zware SQL statements vooruitlopend op de daadwerkelijke aanroep	06-04-2013 22:26:48	Invantive - System			Planned	Unfinished					☑	☑	☑	86.400	-	
42	Beheer: werk database synoniemen bij indien nodig	06-04-2013 22:26:48	Invantive - System			Planned	Unfinished					☑	☑	☑	86.400	-	
101	Beheer: synchroniseer documenten tekst index met daadwerkelijke inhoud	Today 16:55:12	Invantive - System	Today 17:00:16	Today 17:00:16	Completed	Error		Low priority 1	1		☐	☐	☐		-	

```
java.lang.RuntimeException: Job 101 (BUBS_SYNC_TEXT_INDEX)
failed with error ORA-20163: sdrpre826: 日程错误ORA-20163:
sdrpre823: Oracle用户是否有写权限?无法打开输出文件job-101.out
在文件夹SMOKE_BUBS_DCT中，因为ORA-29283: Ongeldige
bestandsbewerking
ORA-06512: in "SYS.UTL_FILE", regel 41
ORA-06512: in "SYS.UTL_FILE", regel 512
ORA-29283: Ongeldige bestandsbewerking
.ORA-29283: Ongeldige bestandsbewerking
ORA-06512: in "SYS.UTL_FILE", regel 41
ORA-06512: in "SYS.UTL_FILE", regel 512
ORA-29283: Ongeldige bestandsbewerking
ORA-06512: in "SYS.UTL_FILE", regel 41
ORA-06512: in "SYS.UTL_FILE", regel 512
ORA-06512: in "SMOKE_BUBS.BUBS#SCHEDULERS", regel 1127
, ORA-06512: in "SMOKE_BUBS.ITGEN_LOG", regel 986
ORA-06512: in "SMOKE_BUBS.BUBS_ERROR_HANDLER", regel
816
ORA-06512: in "SMOKE_BUBS.BUBS#SCHEDULERS", regel 1134
.sdrpre823: Oracle用户是否有写权限?无法打开输出文件job-
101.out在文件夹SMOKE_BUBS_DCT中，因为ORA-29283:
Ongeldige bestandsbewerking
ORA-06512: in "SYS.UTL_FILE", regel 41
ORA-06512: in "SYS.UTL_FILE", regel 512
ORA-29283: Ongeldige bestandsbewerking
.ORA-29283: Ongeldige bestandsbewerking
ORA-06512: in "SYS.UTL_FILE", regel 41
ORA-06512: in "SYS.UTL_FILE", regel 512
ORA-29283: Ongeldige bestandsbewerking
ORA-06512: in "SYS.UTL_FILE", regel 41
ORA-06512: in "SYS.UTL_FILE", regel 512
ORA-06512: in "SMOKE_BUBS.BUBS#SCHEDULERS", regel 1127
ORA-06512: in "SMOKE_BUBS.ITGEN_LOG", regel 986
ORA-06512: in "SMOKE_BUBS.BUBS_ERROR_HANDLER", regel
816
ORA-06512: in "SMOKE_BUBS.BUBS#SCHEDULERS", regel 1134
ORA-06512: in "SMOKE_BUBS.ITGEN_LOG", regel 986
ORA-06512: in "SMOKE_BUBS.BUBS_ERROR_HANDLER", regel
816
ORA-06512: in "SMOKE_BUBS.BUBS#SCHEDULERS", regel 1305
ORA-06512: in "SMOKE_BUBS.BUBS#SCHEDULERS_P", regel 75
ORA-06512: in regel 3

at
com.invantive.scheduler.Scheduler.runFirstJob(Scheduler.java:546)
at com.invantive.scheduler.Scheduler.run(Scheduler.java:1046)
at java.util.TimerThread.mainLoop(Timer.java:555)
at java.util.TimerThread.run(Timer.java:505)
```

Create or change

Number:
Description:
Script:
Requested Start Time:
Requester:
Start:
End:
Status:
End Status:
Exit Code:
Parent Job:
Scheduler:
Last Error Message:
Database Session:
Working Schedule *: Select Value
#Days to Keep:
#Versions to Keep:
Rerun on Error: ☐
Rerun on Success: ☐
Rerun on Warning: ☐
Rerun Every (sec):
Documents:

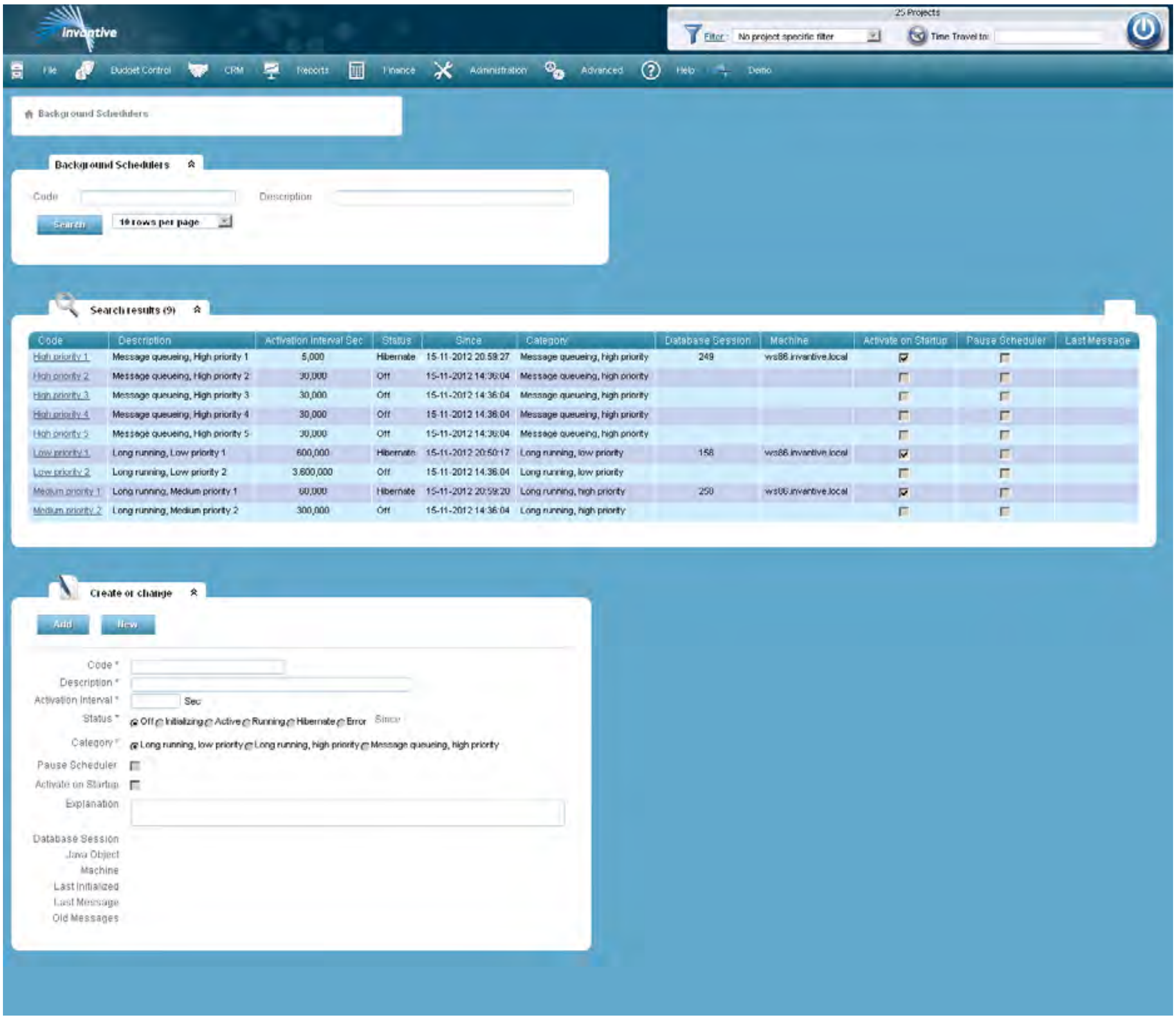
The meaning of the entry fields is:

Number	The unique number of the background job.
Script	The background script being executed.
Requested Start Time	The first possible point in time at which the user wants the background job to be executed.
Requester	The name of the user who has requested the job.
Start	The final start time of the job. This time will never be sooner than the requested start time, but can be significantly later, depending on the amount of background jobs requested.
End	The time that the execution of the background job ended.
Status	The current status of the job. The following statuses can occur: • Planned: the job is registered and will be started as soon as possible after the requested start time. • Locked: the job is locked and in this way can be assigned to a scheduler. • Active: The job is currently being executed. The time the job started, is shown in the field 'Start'. • Wait: the job has started another job and waits until that one is completed. • Completed: the job is completed. The time when the job was completed, is recorded in the field 'End'. • Canceled: the job is requested, but the request is canceled before the job has started. • Terminated: the job is terminated due to a sudden stop of the system, for instance because the server is rebooted while the job was still being executed.
End Status	The result of the job. The following end statuses can occur: • Unfinished: the job is not completed yet and thus has no end status. • Successful: the job has been completed. • Error: the job is terminated with one or more errors. • Warning: the job has completed, but one or more warnings have been generated. Errors can be found in the log file.
Exit Code	The final numerical value of the job.
Parent Job	The possible number of the job requested by this job.
Scheduler	The background scheduler that will execute, has executed or is executing the job.
Last Error Message	The last error message if the process has ended with one or more errors.
Database Session	The unique database session number of the background job.
# Days to Keep	The number of days that the output file and the log file are stored.
# Versions to Keep	The amount of versions retained.
Rerun on Error	When checked, the process is run again if it ended with one or more errors.
Rerun on Success	When checked, the process is run again if it was successful.
Rerun on Warning	When checked, the process is run again if it ended with a warning.
Rerun Every (sec)	The number of seconds before the process is restarted after a restart event.
Documents	Documents linked to the background process.
#Documents	The number of documents linked to the background process.
Size	The size of the documents linked to the background process.
Output File	The name of the output file.
Log File	The name of the log file.

Schedulers

In this screen you can register and change background schedulers.

A background scheduler is a process that executes background jobs requested by users. Thes jobs are based on Background Scripts 314.



Code	Description	Activation Interval Sec	Status	Since	Category	Database Session	Machine	Activate on Startup	Pause Scheduler	Last Message
High priority 1	Message queueing, High priority 1	5,000	Hibernate	15-11-2012 20:58:27	Message queueing, high priority	249	ws86.invantive.local	☑	☐	
High priority 2	Message queueing, High priority 2	30,000	Off	15-11-2012 14:36:04	Message queueing, high priority			☐	☐	
High priority 3	Message queueing, High priority 3	30,000	Off	15-11-2012 14:36:04	Message queueing, high priority			☐	☐	
High priority 4	Message queueing, High priority 4	30,000	Off	15-11-2012 14:36:04	Message queueing, high priority			☐	☐	
High priority 5	Message queueing, High priority 5	30,000	Off	15-11-2012 14:36:04	Message queueing, high priority			☐	☐	
Low priority 1	Long running, Low priority 1	600,000	Hibernate	15-11-2012 20:50:17	Long running, low priority	158	ws86.invantive.local	☑	☐	
Low priority 2	Long running, Low priority 2	3.600,000	Off	15-11-2012 14:36:04	Long running, low priority			☐	☐	
Medium priority 1	Long running, Medium priority 1	60,000	Hibernate	15-11-2012 20:59:20	Long running, high priority	250	ws86.invantive.local	☑	☐	
Medium priority 2	Long running, Medium priority 2	300,000	Off	15-11-2012 14:36:04	Long running, high priority			☐	☐	

Code *
Description *
Activation Interval * Sec
Status * ● Off ○ Initializing ○ Active ○ Running ○ Hibernate ○ Error Since
Category * ● Long running, low priority ○ Long running, high priority ○ Message queueing, high priority
Pause Scheduler ☐
Activate on Startup ☐
Explanation
Database Session
Java Object
Machine
Last Initialized
Last Message
Old Messages

The meaning of the entry fields is:

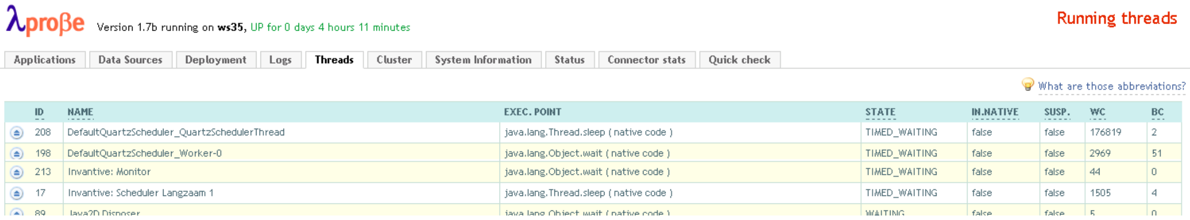
Code	The unique code.
Description	The description.
Activation Interval	When they are not executing a job, the background schedulers often check whether there are jobs ready to be started. The activation interval determines the time in seconds between the checks.
Category	The skills the scheduler has to offer. A Background Script 314 can only be executed on schedulers possessing the required skills.
Activate on Startup	The scheduler is activated while starting the web server when checked.

The meaning of the other fields:

Status	Status of the background scheduler: • Off: the background scheduler is not activated while starting the web server. • Initialising: the background planner is being initialised, but is not active yet. This status only occurs for a short moment of time while starting the web server. • Active: the background scheduler is actively working to check whether there are background jobs to be started. • Executing: the background scheduler is currently executing a background job. • Sleeping mode: the background scheduler sleeps until the end of the activation interval. • Error: the background scheduler is in error mode.
Database Session	A unique database session belonging to this background scheduler.
Java Object	The Java object that the background scheduler executes.
Machine	The machine on which the background scheduler runs.
Last Installed	The system time where the background scheduler was last installed.

Last Message	The last message of the scheduler.
Old Messages	Earlier values of the last message that the planner has given.

The background schedulers are also visible in, for example, Probe as Threads in Apache Tomcat:


λproβe
Version 1.7b running on ws35, UP for 0 days 4 hours 11 minutes
Running threads
Applications
Data Sources
Deployment
Logs
Threads
Cluster
System Information
Status
Connector stats
Quick check
What are those abbreviations?

ID	NAME	EXEC. POINT	STATE	IN.NATIVE	SUSP.	WC	BC
208	DefaultQuartzScheduler_QuartzSchedulerThread	java.lang.Thread.sleep (native code)	TIMED_WAITING	false	false	176819	2
198	DefaultQuartzScheduler_Worker-0	java.lang.Object.wait (native code)	TIMED_WAITING	false	false	2969	51
213	Invantive: Monitor	java.lang.Object.wait (native code)	TIMED_WAITING	false	false	44	0
17	Invantive: Scheduler Langzaam 1	java.lang.Thread.sleep (native code)	TIMED_WAITING	false	false	1505	4
89	Java2D Disposer	java.lang.Object.wait (native code)	WAITING	false	false	5	0

1.2.8.2 Menu Structure

This chapter describes the screens of Invantive Estate with which you can change the menu.

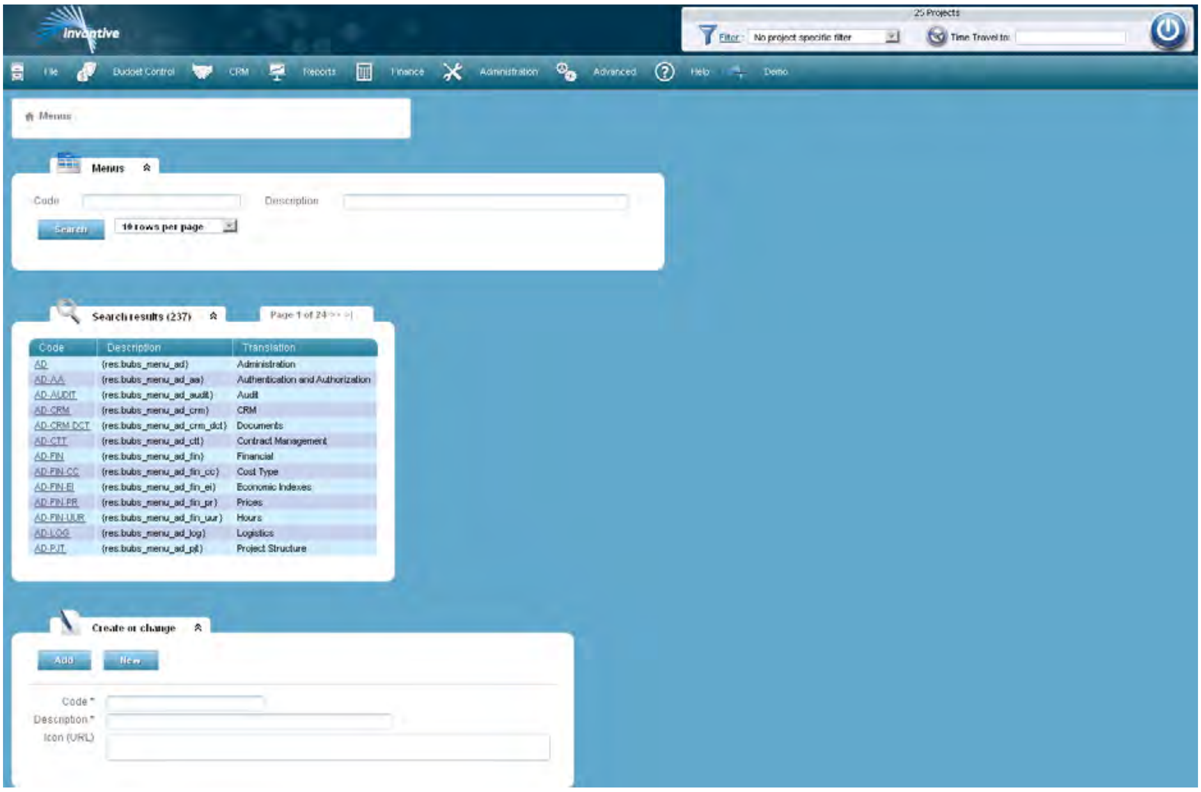
A menu is a list of possible functions and is part of the graphical user interface. The implementation of menus is slightly different between operating systems, but generally they are similar in function and handling.

Under Microsoft Windows a window has a title bar at the top with directly below the menu bar. With the menu bar, menus can be opened. A menu item could also open a submenu or a report.

Menus

In this form you can register and change menus.

A menu is a logical collection of functions (forms and reports) and other menus. See Menu Items 225 how screens, reports and submenus can be linked to a menu.


invantive
25 Projects
Filter
No project specific filter
Time Travel to
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Menus
Menus
Code
Description
Search
10 rows per page
Search results (237)
Page 1 of 24 >> >|
Create or change
Add
New
Code *
Description *
Icon (URL)

Code	Description	Translation
AD	{res:bubs_menu_ad}	Administration
AD-AA	{res:bubs_menu_ad_aa}	Authentication and Authorization
AD-AUDIT	{res:bubs_menu_ad_audit}	Audit
AD-CRM	{res:bubs_menu_ad_crm}	CRM
AD-CRM-DCT	{res:bubs_menu_ad_crm_dct}	Documents
AD-CTT	{res:bubs_menu_ad_ctt}	Contract Management
AD-FIN	{res:bubs_menu_ad_fin}	Financial
AD-FIN-CC	{res:bubs_menu_ad_fin_cc}	Cost Type
AD-FIN-EI	{res:bubs_menu_ad_fin_ei}	Economic Indexes
AD-FIN-PR	{res:bubs_menu_ad_fin_pr}	Prices
AD-FIN-UUR	{res:bubs_menu_ad_fin_uur}	Hours
AD-LOG	{res:bubs_menu_ad_log}	Logistics
AD-PJT	{res:bubs_menu_ad_pjt}	Project Structure

The meaning of the entry fields is:

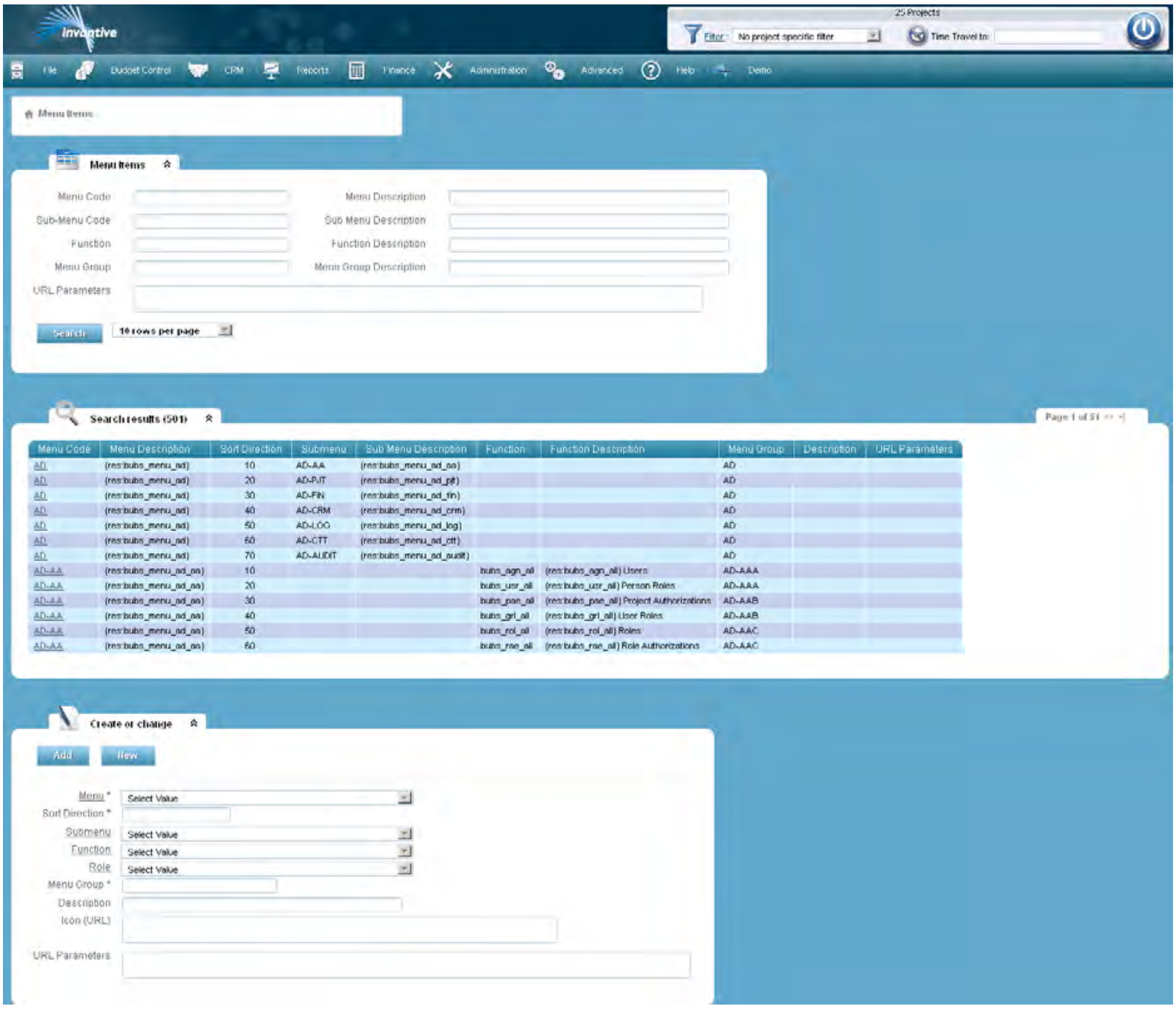
Code	The code of the menu.
Description	The description. This is translated, see ‘Translations’.

Note that the menu with the code ‘Main’ is the central main menu and should therefore always exist.

Menu Items

In this screen you can register and change menu items.

A menu item is a part of a menu and refers to a screen, report or submenu.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Menu Items
Menu Items
Menu Code
Menu Description
Sub-Menu Code
Sub Menu Description
Function
Function Description
Menu Group
Menu Group Description
URL Parameters
Search
10 rows per page
Search results (501)
Page 1 of 51
Create or change
Add
New
Menu *
Sort Direction *
Submenu
Function
Role
Menu Group *
Description
Icon (URL)
URL Parameters
Select Value

Menu Code	Menu Description	Sort Direction	Submenu	Sub Menu Description	Function	Function Description	Menu Group	Description	URL Parameters
AD	(res:bubs_menu_ad)	10	AD-AA	(res:bubs_menu_ad_aa)			AD		
AD	(res:bubs_menu_ad)	20	AD-PJT	(res:bubs_menu_ad_pjt)			AD		
AD	(res:bubs_menu_ad)	30	AD-FIN	(res:bubs_menu_ad_fin)			AD		
AD	(res:bubs_menu_ad)	40	AD-CRM	(res:bubs_menu_ad_crm)			AD		
AD	(res:bubs_menu_ad)	50	AD-LOG	(res:bubs_menu_ad_log)			AD		
AD	(res:bubs_menu_ad)	60	AD-CTT	(res:bubs_menu_ad_ctt)			AD		
AD	(res:bubs_menu_ad)	70	AD-AUDIT	(res:bubs_menu_ad_audit)			AD		
AD-AA	(res:bubs_menu_ad_aa)	10			bubs_agn_all	(res:bubs_agn_all) Users	AD-AAA		
AD-AA	(res:bubs_menu_ad_aa)	20			bubs_usr_all	(res:bubs_usr_all) Person Roles	AD-AAA		
AD-AA	(res:bubs_menu_ad_aa)	30			bubs_pae_all	(res:bubs_pae_all) Project Authorizations	AD-AAB		
AD-AA	(res:bubs_menu_ad_aa)	40			bubs_grl_all	(res:bubs_grl_all) User Roles	AD-AAB		
AD-AA	(res:bubs_menu_ad_aa)	50			bubs_rol_all	(res:bubs_rol_all) Roles	AD-AAC		
AD-AA	(res:bubs_menu_ad_aa)	60			bubs_rae_all	(res:bubs_rae_all) Role Authorizations	AD-AAC		

The meaning of the entry fields is:

Menu	The code of the menu where the menu item is part of.
Sort Order	The numerical value used for sorting the items in a menu.
Submenu	In case the menu item has to open another menu, select here the name of the submenu.
Function	In case the menu item has to open another screen or report, select here the name of the function. In the screen Functions 249 you can indicate wheter a function may be shown here.
Role	If the menu may only be displayed to a specific role, select this role here. This differs from the function security, because for each menu item you can define its display behavior, and not the safety of all menu items based on a function. You can base different menu items on the same function, but display the menu item only to a selected audience. In this way you can avoid confusion, however it is not a security function.
Menu Group	With menu group you can group menu items in a menu. In the menu, menu groups are separated from another via a horizontal line.

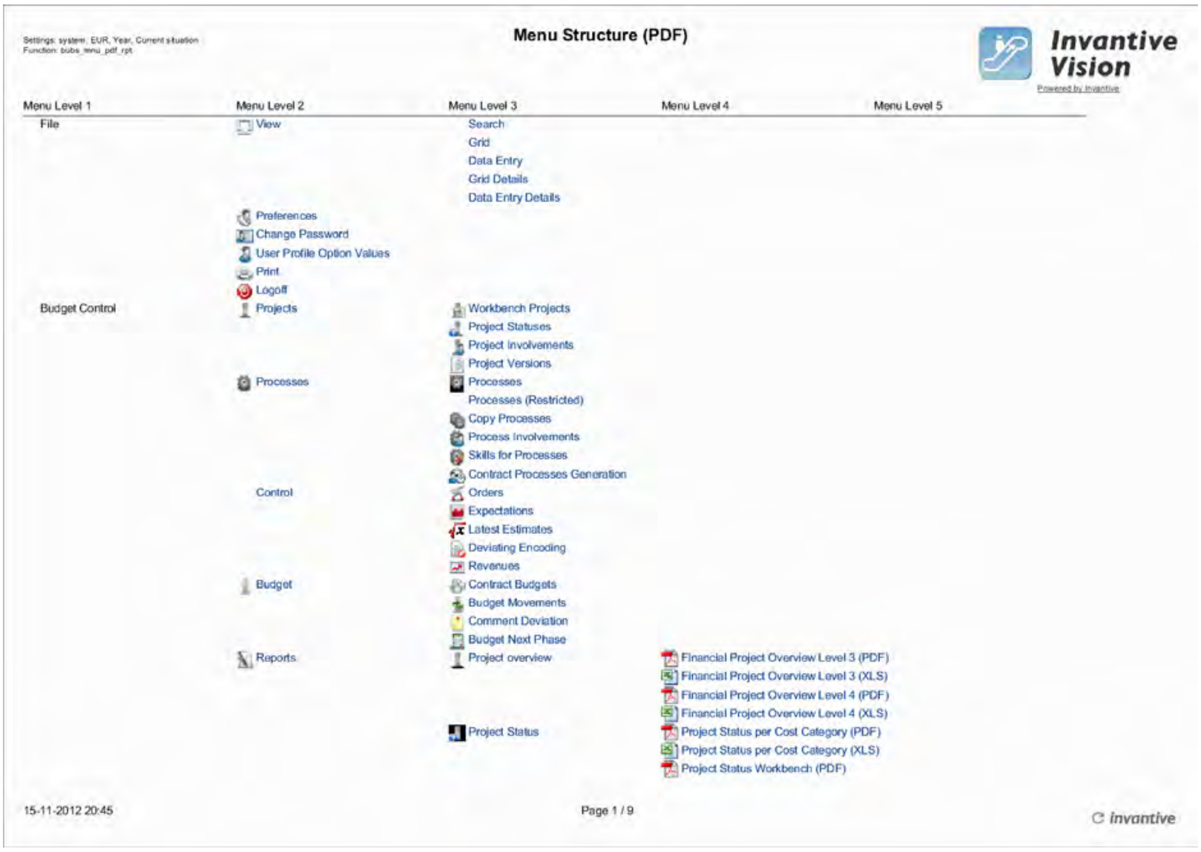
Description	Description of the menu item. This is translated, see 'Translations'.
Icon (URL)	Specifies the location of the menu item icon as a URL. If no path is specified, then the path of the current site will be used.
URL Parameters	>With these parameters, you can use your own templates in menu items. See Customize Screen Template 350. Hint: use the Firefox extension URLParams to easily change the parameters. The parameter :fte_id in the URL-parameters are replaced by the ID of the choosen function and the parameter :mim_id by the ID of the menu item. This can be used to compose URL's to start reports via bubs_rpt.do.

The meaning of the other fields:

Menu Code	The code of the menu where the menu item is part of.
Description	The description of the menu.
Submenu Code	The code from the submenu.
Submenu	The description of the submenu.
Function	The code of the function.
Description	The description of the function.

Menu Structure

This report displays the menu structure of the 'Main' menu of Invantive Estate.



Settings: system, EUR, Year, Current situation
Function: bubs_mnu_pdf_rpt

Menu Structure (PDF)

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5
File	View	Search		
		Grid		
		Data Entry		
		Grid Details		
		Data Entry Details		
	Preferences			
	Change Password			
	User Profile Option Values			
	Print			
	Logoff			
Budget Control	Projects	Workbench Projects		
		Project Statuses		
		Project Involvements		
		Project Versions		
	Processes	Processes		
		Processes (Restricted)		
		Copy Processes		
		Process Involvements		
		Skills for Processes		
		Contract Processes Generation		
	Control	Orders		
		Expectations		
		Latest Estimates		
		Deviating Encoding		
		Revenues		
	Budget	Contract Budgets		
		Budget Movements		
		Comment Deviation		
		Budget Next Phase		
	Reports	Project overview	Financial Project Overview Level 3 (PDF)	
			Financial Project Overview Level 3 (XLS)	
			Financial Project Overview Level 4 (PDF)	
			Financial Project Overview Level 4 (XLS)	
		Project Status	Project Status per Cost Category (PDF)	
			Project Status per Cost Category (XLS)	
			Project Status Workbench (PDF)	

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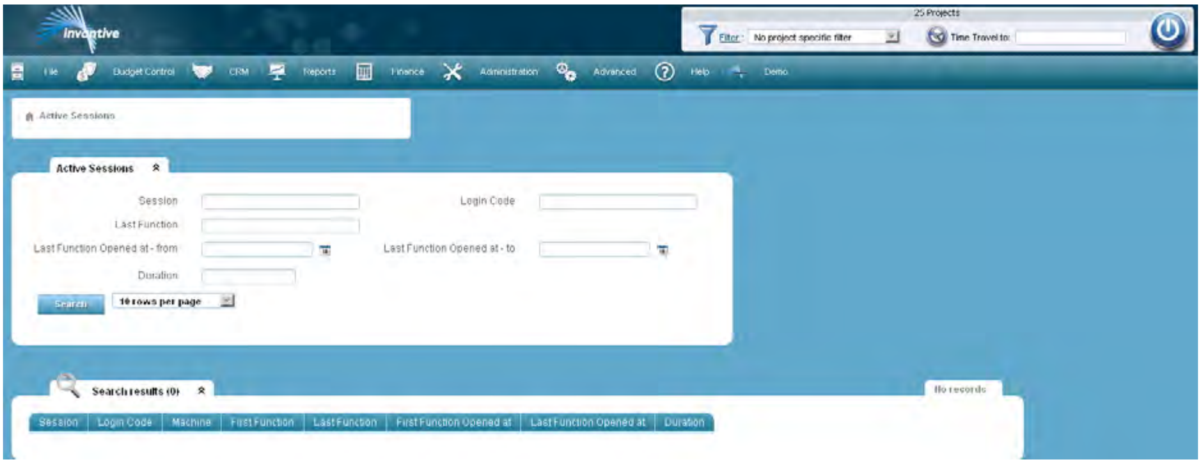
1.2.8.3 Audit

Enter text here.

Active Sessions

This screen allows you to look up data from user sessions.

A session starts when a person logs into the application. A session is closed after the user logs out or after a set time has elapsed after the last action of the user.



Filter: No project specific filter

10 rows per page

Invantive
25 Projects
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Active Sessions
Active Sessions
Session
Login Code
Last Function
Last Function Opened at - from
Last Function Opened at - to
Duration
Search
Search results (0)
No records
Session
Login Code
Machine
First Function
Last Function
First Function Opened at
Last Function Opened at
Duration

In the screen you cannot add or change data.

The meaning of the search fields is:

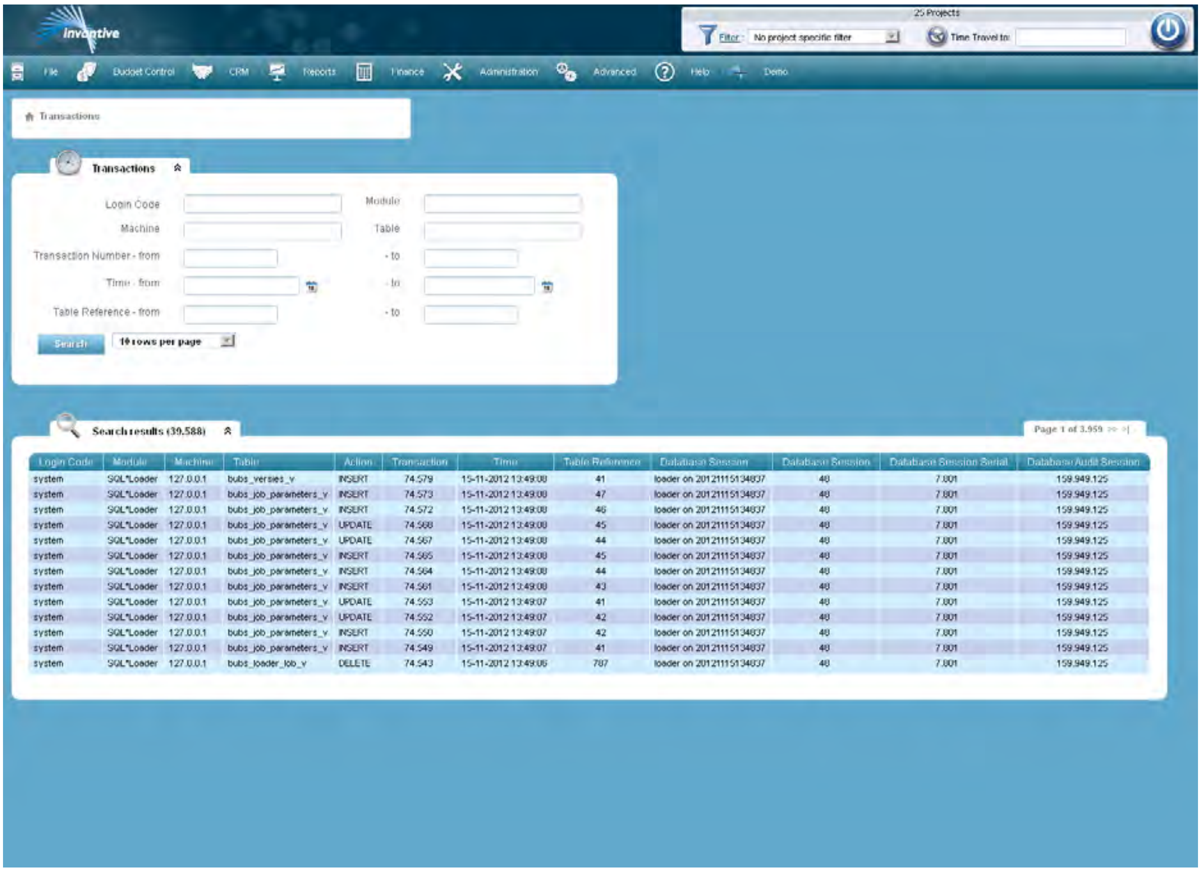
Session	Here you can choose the filter for a session. A session has a unique identification number.
Username	Here you can choose a filter for a user name.
Last Function	Here you can choose a filter for the name of the last function.
Last Function Opened - at	Here you can choose a filter for the period from for the last opened function.
Last Function - to	Here you can choose a filter for the period until for the last opened function.
Duration	Here you can choose the value for the filter for the duration of a session.

Transactions

In this form you can view transactions.

A transaction is a change of data registered by Invantive Estate. All transactions are stored, except the huge amount of transactions caused by the ERP interface.

For each transaction is recorded by whom (username), when (time), from which form (module), from which PC (machine), what action (action) was performed in which table (table) and within which session (database session). Moreover, an ascending transaction number is allocated. Finally, every transaction refers to the data which was being changed with a table reference. This is a unique number within the table, stored in the ID column, with which the modified data can be traced exactly.



Login Code	Module	Machine	Table	Action	Transaction	Time	Table Reference	Database Session	Database Session	Database Session Serial	Database Audit Session
system	SQL*Loader	127.0.0.1	bubs_versies_v	INSERT	74.579	15-11-2012 13:49:08	41	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_job_parameters_v	INSERT	74.573	15-11-2012 13:49:08	47	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_job_parameters_v	INSERT	74.572	15-11-2012 13:49:08	46	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_job_parameters_v	UPDATE	74.568	15-11-2012 13:49:08	45	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_job_parameters_v	UPDATE	74.567	15-11-2012 13:49:08	44	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_job_parameters_v	INSERT	74.565	15-11-2012 13:49:08	45	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_job_parameters_v	INSERT	74.564	15-11-2012 13:49:08	44	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_job_parameters_v	INSERT	74.561	15-11-2012 13:49:08	43	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_job_parameters_v	UPDATE	74.553	15-11-2012 13:49:07	41	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_job_parameters_v	UPDATE	74.552	15-11-2012 13:49:07	42	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_job_parameters_v	INSERT	74.550	15-11-2012 13:49:07	42	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_job_parameters_v	INSERT	74.549	15-11-2012 13:49:07	41	loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	bubs_loader_job_v	DELETE	74.543	15-11-2012 13:49:06	787	loader on 20121115134837	48	7.801	159.949.125

There are no entry fields.

The meaning of the other fields:

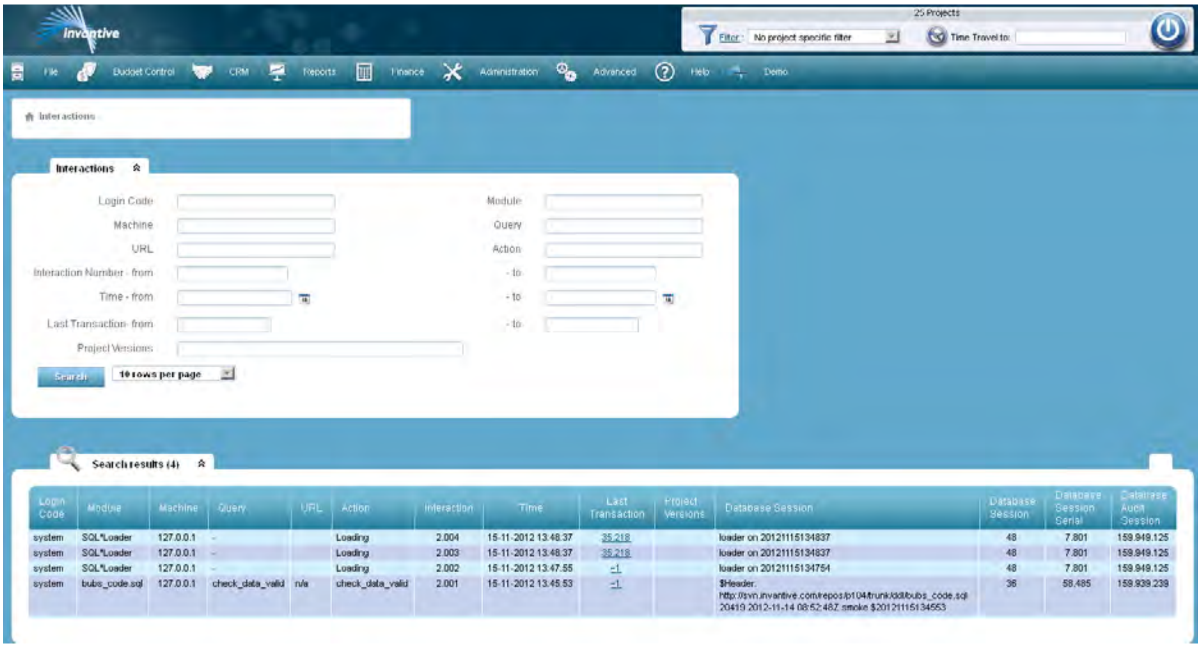
Login	The user name as registered in Persons 97.
Module	The module that was used for the transaction.
Machine	The IP address of the computer that generated the transaction.
Table	The name of the table in which the action was performed.
Action	The SQL action which was started by the transaction. It can be a 'select', an 'update', an 'insert' or a 'delete' action.
Transaction	In the time ascending transaction number
Time	The date and time at which the transaction was executed.
Table Reference	Unique number within the table that is stored in the ID column and refers to the data that has been changed.
Database Session	A unique alphanumeric value that identifies the Invantive Estate session.
Database Session	Database Session ID. Specifies the unique database session for a given moment in time.
Database Session Serial	Specifies a unique database session together with the database session number until the database system is restarted, regardless of any given moment in time. A database session number can be reused after a certain period of time and is as such not unique. In combination with the database session sequence number a unique combination is formed.
Database Audit Session	ID to link with the database audit trail session.

Interactions

In this form you can view interactions.

An interaction is an activity a user executes with Invantive Estate. This usually is making requests of data via a screen or by opening a report.

With each interaction it is recorded by whom (logon code), when (point in time), in what screen (module), from which PC (machine), which action (query) is executed. Moreover, an ascending interaction number is assigned. Finally, each interaction refers to the last assigned transaction number, so that a chronological dependency between transactions and interactions can be made to determine what information was available at the time of the request.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Interactions
Interactions
Login Code
Machine
URL
Interaction Number - from
Time - from
Last Transaction - from
Project Versions
Module
Query
Action
- to
- to
- to
Search
10 rows per page
Search results (4)

Login Code	Module	Machine	Query	URL	Action	Interaction	Time	Last Transaction	Project Versions	Database Session	Database Session	Database Session Serial	Database Audit Session
system	SQL*Loader	127.0.0.1	-		Loading	2.004	15-11-2012 13:48:37	35.218		loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	-		Loading	2.003	15-11-2012 13:48:37	35.218		loader on 20121115134837	48	7.801	159.949.125
system	SQL*Loader	127.0.0.1	-		Loading	2.002	15-11-2012 13:47:55	-1		loader on 20121115134754	48	7.801	159.949.125
system	bubs_code.sql	127.0.0.1	check_data_valid	n/a	check_data_valid	2.001	15-11-2012 13:45:53	-1		$Header: http://svn.invantive.com/repos/p104/trunk/ddl/bubs_code.sql 20419 2012-11-14 08:52:48Z smoke $20121115134553	36	58.485	159.939.239

There are no entry fields.

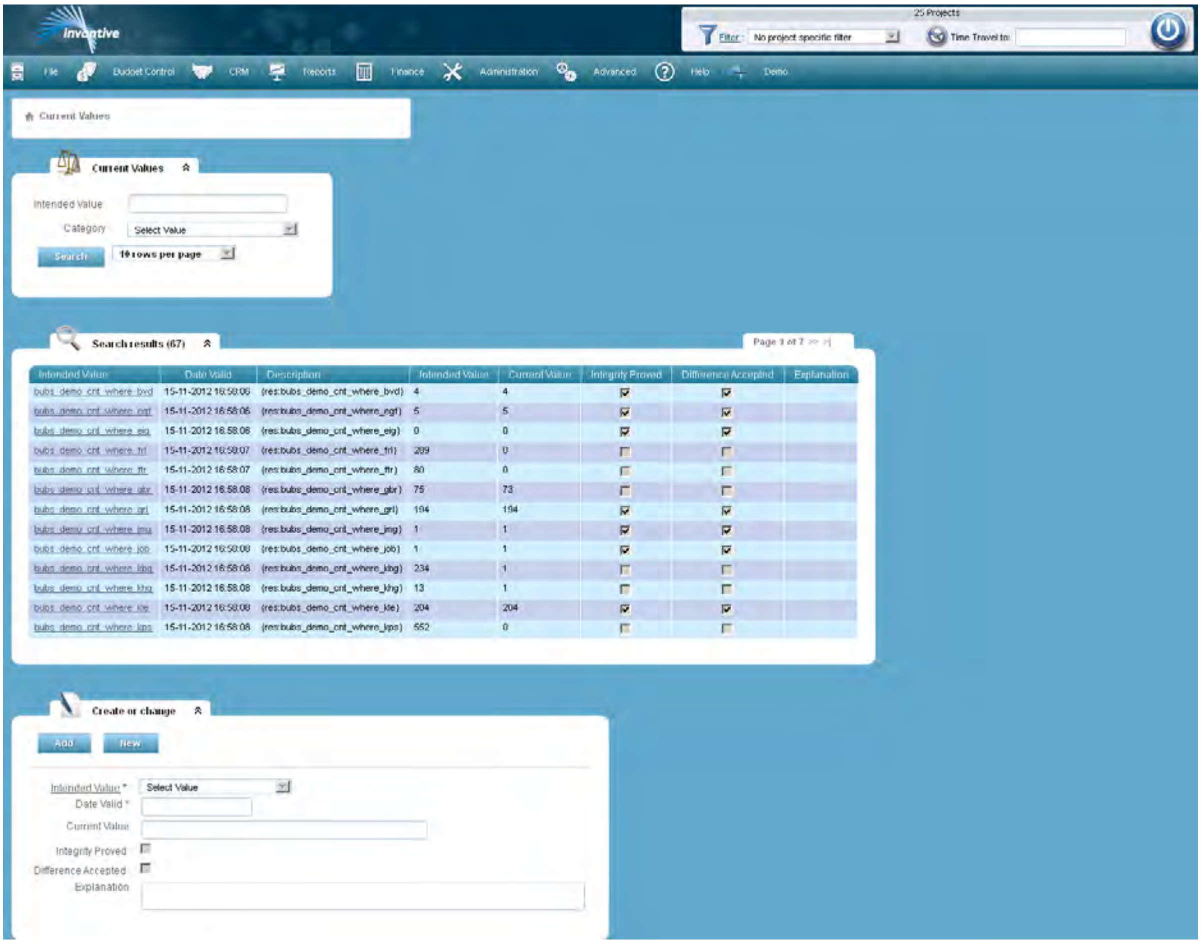
The meaning of the other fields:

Username	The user name as registered in Persons 97.
Module	The module used for the interaction.
Machine	The IP address of the computer that generated the interaction.
Query	The query that was requested by the user.
URL	The URL of the screen of Invantive Estatefrom where the interaction was requested.
Action	The action which was initiated by the interaction.
Interaction	Unique numeric code that serves as a unique index, whose value is equal to the column ID.
Time	The date and time at which the interaction was requested.
Last Transaction	The number of the last transaction.
Database Session	A unique alphanumeric value that identifies the Invantive Estate session.
Database Session	Database Session ID. Specifies the unique database session for a given moment in time.
Database Session Serial	Specifies a unique database session together with the database session number until the database system is restarted, regardless of any given moment in time. A database session number can be reused after a certain period of time and is as such not unique. In combination with the database session sequence number a unique combination is formed.
Database Audit Session	ID to link with the database audit trail session.
Project Versions	The project versions filter that was applicable at the moment of the interaction.

Current Values

In this screen you can request the outcomes of the tests of the control numbers.

See Soll Values 230 for a more extensive explanation.



Current Values

Intended Value

Category: Select Value

Search 10 rows per page

Search results (67)

Page 1 of 7

Intended Value	Date Valid	Description	Intended Value	Current Value	Integrity Proved	Difference Accepted	Explanation
bubs_demo_cnt_where_bvd	15-11-2012 16:58:06	{res:bubs_demo_cnt_where_bvd}	4	4	☑	☑	
bubs_demo_cnt_where_egt	15-11-2012 16:58:06	{res:bubs_demo_cnt_where_egt}	5	5	☑	☑	
bubs_demo_cnt_where_eig	15-11-2012 16:58:06	{res:bubs_demo_cnt_where_eig}	0	0	☑	☑	
bubs_demo_cnt_where_frl	15-11-2012 16:58:07	{res:bubs_demo_cnt_where_frl}	289	0	☐	☐	
bubs_demo_cnt_where_ftr	15-11-2012 16:58:07	{res:bubs_demo_cnt_where_ftr}	80	0	☐	☐	
bubs_demo_cnt_where_gbr	15-11-2012 16:58:08	{res:bubs_demo_cnt_where_gbr}	75	73	☐	☐	
bubs_demo_cnt_where_grl	15-11-2012 16:58:08	{res:bubs_demo_cnt_where_grl}	194	194	☑	☑	
bubs_demo_cnt_where_img	15-11-2012 16:58:08	{res:bubs_demo_cnt_where_img}	1	1	☑	☑	
bubs_demo_cnt_where_job	15-11-2012 16:58:08	{res:bubs_demo_cnt_where_job}	1	1	☑	☑	
bubs_demo_cnt_where_kbg	15-11-2012 16:58:08	{res:bubs_demo_cnt_where_kbg}	234	1	☐	☐	
bubs_demo_cnt_where_khg	15-11-2012 16:58:08	{res:bubs_demo_cnt_where_khg}	13	1	☐	☐	
bubs_demo_cnt_where_kle	15-11-2012 16:58:08	{res:bubs_demo_cnt_where_kle}	204	204	☑	☑	
bubs_demo_cnt_where_kps	15-11-2012 16:58:08	{res:bubs_demo_cnt_where_kps}	552	0	☐	☐	

Create or change

Intended Value *: Select Value

Date Valid *

Current Value

Integrity Proved ☐

Difference Accepted ☐

Explanation

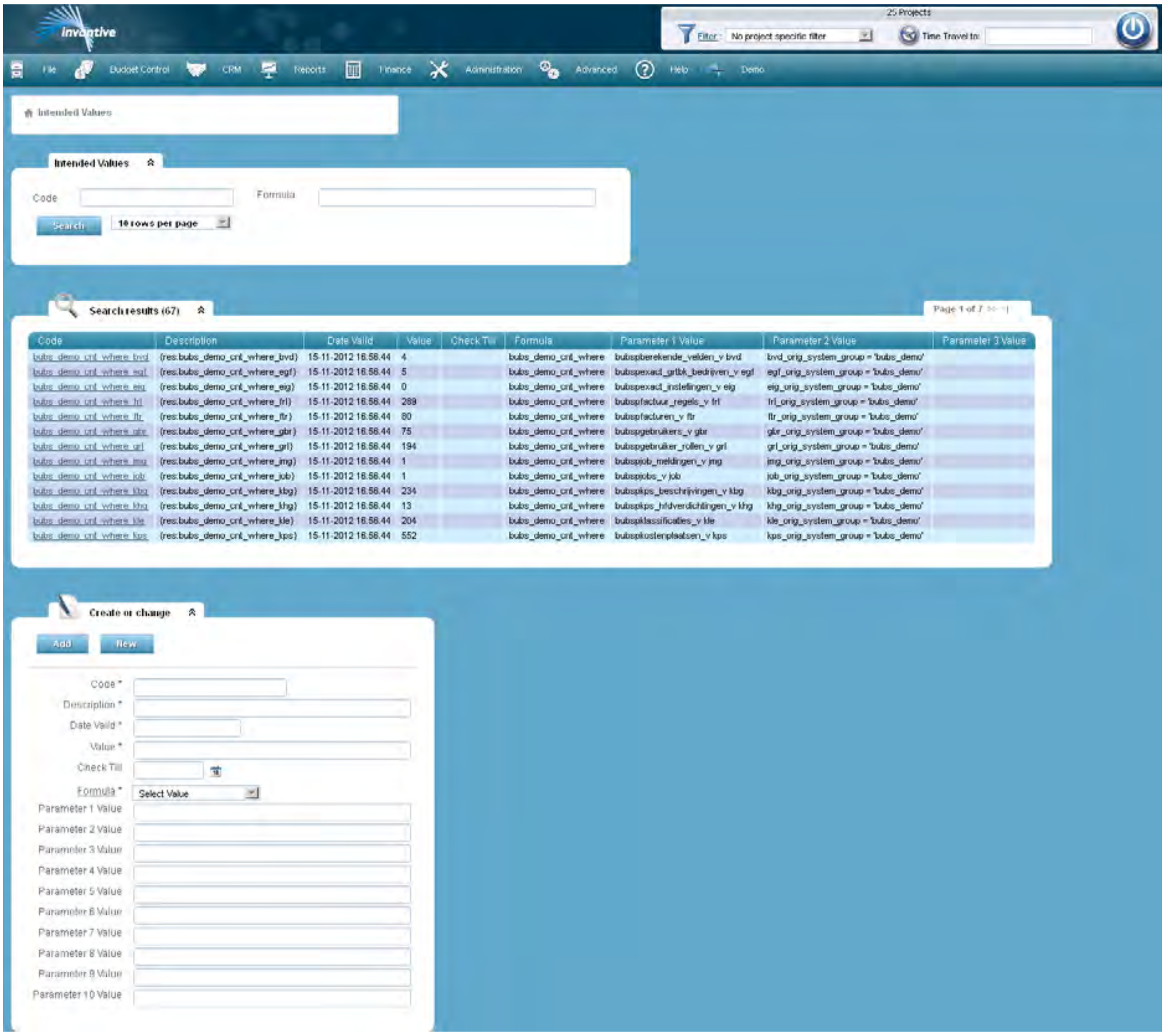
The meaning of the entry fields is:

Code	The code for the used Soll value.
Date Valid	The time at which the test was performed.
Ist Value	The outcome of the test.
Integrity Proved	Checked in case the Ist value meets the Soll value.
Difference Accepted	Checked if the integrity is proven or when a difference was found, but the difference manually was approved.
Explanation	An explanation why the difference was approved

Soll Values

In this form you can register and change soll values.

With the aid of value formulas, intended values and keys application controls can be realized in order to check the integrity of the stored data. With a value formula you store the calculation. Next, you specify in the intended values the parameters which need to be entered in the value formula and the expected outcome of a measuring date. Finally you can calculate the actual value with a background script.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Intended Values
Intended Values
Code
Formula
Search
10 rows per page
Search results (67)
Page 1 of 7
Create or change
Add
New
Code *
Description *
Date Valid *
Value *
Check Till
Formula *
Select Value
Parameter 1 Value
Parameter 2 Value
Parameter 3 Value
Parameter 4 Value
Parameter 5 Value
Parameter 6 Value
Parameter 7 Value
Parameter 8 Value
Parameter 9 Value
Parameter 10 Value

Code	Description	Date Valid	Value	Check Till	Formula	Parameter 1 Value	Parameter 2 Value	Parameter 3 Value
bubs_demo_cnt_where_bvd	(res:bubs_demo_cnt_where_bvd)	15-11-2012 16:56:44	4		bubs_demo_cnt_where	bubspberekende_velden_v bvd	bvd_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_egf	(res:bubs_demo_cnt_where_egf)	15-11-2012 16:56:44	5		bubs_demo_cnt_where	bubspexact_grtbk_bedrijven_v egf	egf_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_eig	(res:bubs_demo_cnt_where_eig)	15-11-2012 16:56:44	0		bubs_demo_cnt_where	bubspexact_instellingen_v eig	eig_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_frl	(res:bubs_demo_cnt_where_frl)	15-11-2012 16:56:44	289		bubs_demo_cnt_where	bubspfactuur_regels_v frl	frl_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_ftr	(res:bubs_demo_cnt_where_ftr)	15-11-2012 16:56:44	80		bubs_demo_cnt_where	bubspfacturen_v ftr	ftr_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_gbr	(res:bubs_demo_cnt_where_gbr)	15-11-2012 16:56:44	75		bubs_demo_cnt_where	bubspgebruikers_v gbr	gbr_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_grl	(res:bubs_demo_cnt_where_grl)	15-11-2012 16:56:44	194		bubs_demo_cnt_where	bubspgebruiker_rollen_v grl	grl_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_img	(res:bubs_demo_cnt_where_img)	15-11-2012 16:56:44	1		bubs_demo_cnt_where	bubspjob_meldingen_v img	img_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_job	(res:bubs_demo_cnt_where_job)	15-11-2012 16:56:44	1		bubs_demo_cnt_where	bubspjobs_v job	job_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_kbg	(res:bubs_demo_cnt_where_kbg)	15-11-2012 16:56:44	234		bubs_demo_cnt_where	bubspkps_beschrijvingen_v kbg	kbg_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_khg	(res:bubs_demo_cnt_where_khg)	15-11-2012 16:56:44	13		bubs_demo_cnt_where	bubspkps_hfdverdichtingen_v khg	khg_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_kle	(res:bubs_demo_cnt_where_kle)	15-11-2012 16:56:44	204		bubs_demo_cnt_where	bubspklassificaties_v kle	kle_orig_system_group = 'bubs_demo'	
bubs_demo_cnt_where_kps	(res:bubs_demo_cnt_where_kps)	15-11-2012 16:56:44	552		bubs_demo_cnt_where	bubspkostenplaatsen_v kps	kps_orig_system_group = 'bubs_demo'	

The meaning of the entry fields is:

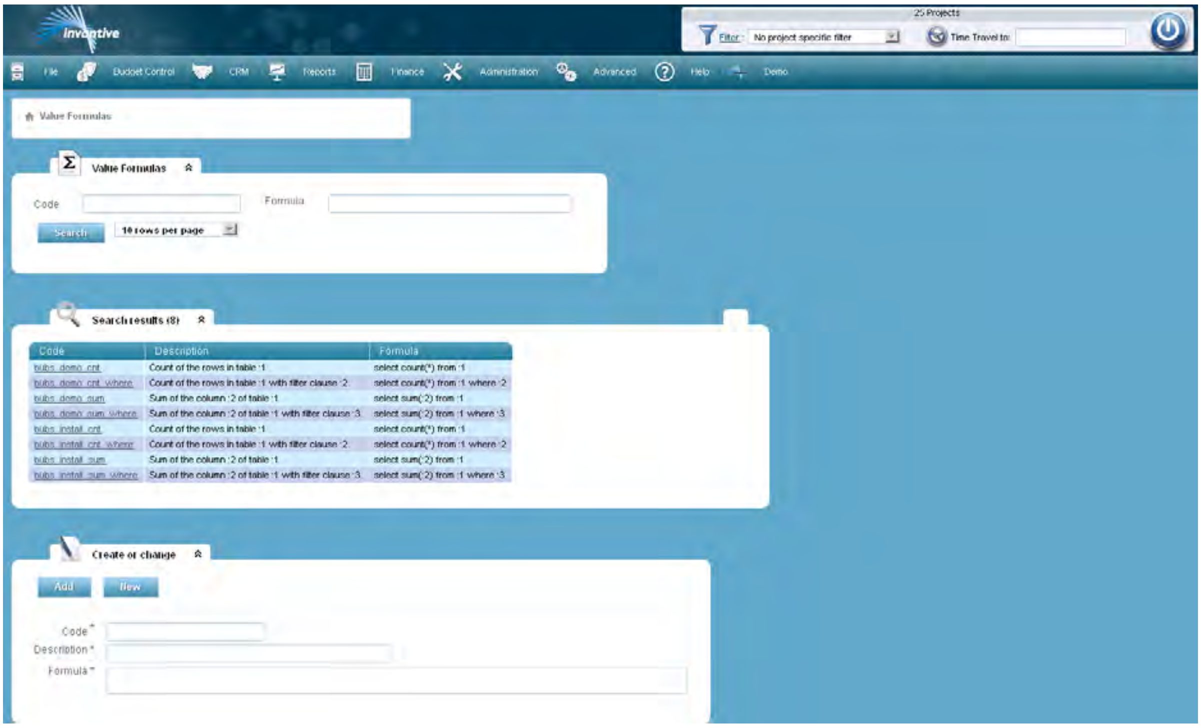
Code	The unique code of a Soll value.
Description	The description of the Soll value.
Date Valid	The moment at which the norm was valid.
Value	The expected value.
Check Till	The time until which the Soll value must be included in the check.
Formula	The value formula which needs to be used to determine the actual value.
Parameter 1 Value	The value of parameter :1 in the formula.
Parameter 2 Value	The value of parameter :2 in the formula.
Parameter 3 Value	The value of parameter :3 in the formula.
Parameter 4 Value	The value of parameter :4 in the formula.
Parameter 5 Value	The value of parameter :5 in the formula.
Parameter 6 Value	The value of parameter :6 in the formula.
Parameter 7 Value	The value of parameter :7 in the formula.
Parameter 8 Value	The value of parameter :8 in the formula.
Parameter 9 Value	The value of parameter :9 in the formula.
Parameter 10 Value	The value of parameter :10 in the formula.

Value Formulas

In this form you can register and change value formulas.

A value formula is a formula in the form of an SQL statement which is used to check the integrity of the data recorded in Invantive Estate.

See Soll Values 230 for a more extensive explanation.


invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Value Formulas
Value Formulas
Code
Formula
Search
10 rows per page
Search results (8)
Create or change
Add
New
Code *
Description *
Formula *

Code	Description	Formula
bubs_demo_cnt	Count of the rows in table :1	select count(*) from :1
bubs_demo_cnt_where	Count of the rows in table :1 with filter clause :2	select count(*) from :1 where :2
bubs_demo_sum	Sum of the column :2 of table :1	select sum(:2) from :1
bubs_demo_sum_where	Sum of the column :2 of table :1 with filter clause :3	select sum(:2) from :1 where :3
bubs_install_cnt	Count of the rows in table :1	select count(*) from :1
bubs_install_cnt_where	Count of the rows in table :1 with filter clause :2	select count(*) from :1 where :2
bubs_install_sum	Sum of the column :2 of table :1	select sum(:2) from :1
bubs_install_sum_where	Sum of the column :2 of table :1 with filter clause :3	select sum(:2) from :1 where :3

The meaning of the entry fields is:

Code	The code of the formula.
Description	The description of the formula.
Formula	The formula in the form of an SQL query. You can use variable texts, supplied by the Soll value. The variable texts are defined as ':1' to ':10'.

1.2.8.4 ERP Interface

This section contains information about the functions needed to exchange data with the general ledger and the accounts receivable and payable ledger. These functions are normally used by the person appointed in the organization to ensure that after the processing of the general ledger, the numbers in Invantive Estate are updated. This will often be the head of the administration.

Interface Screens

Enter text here.

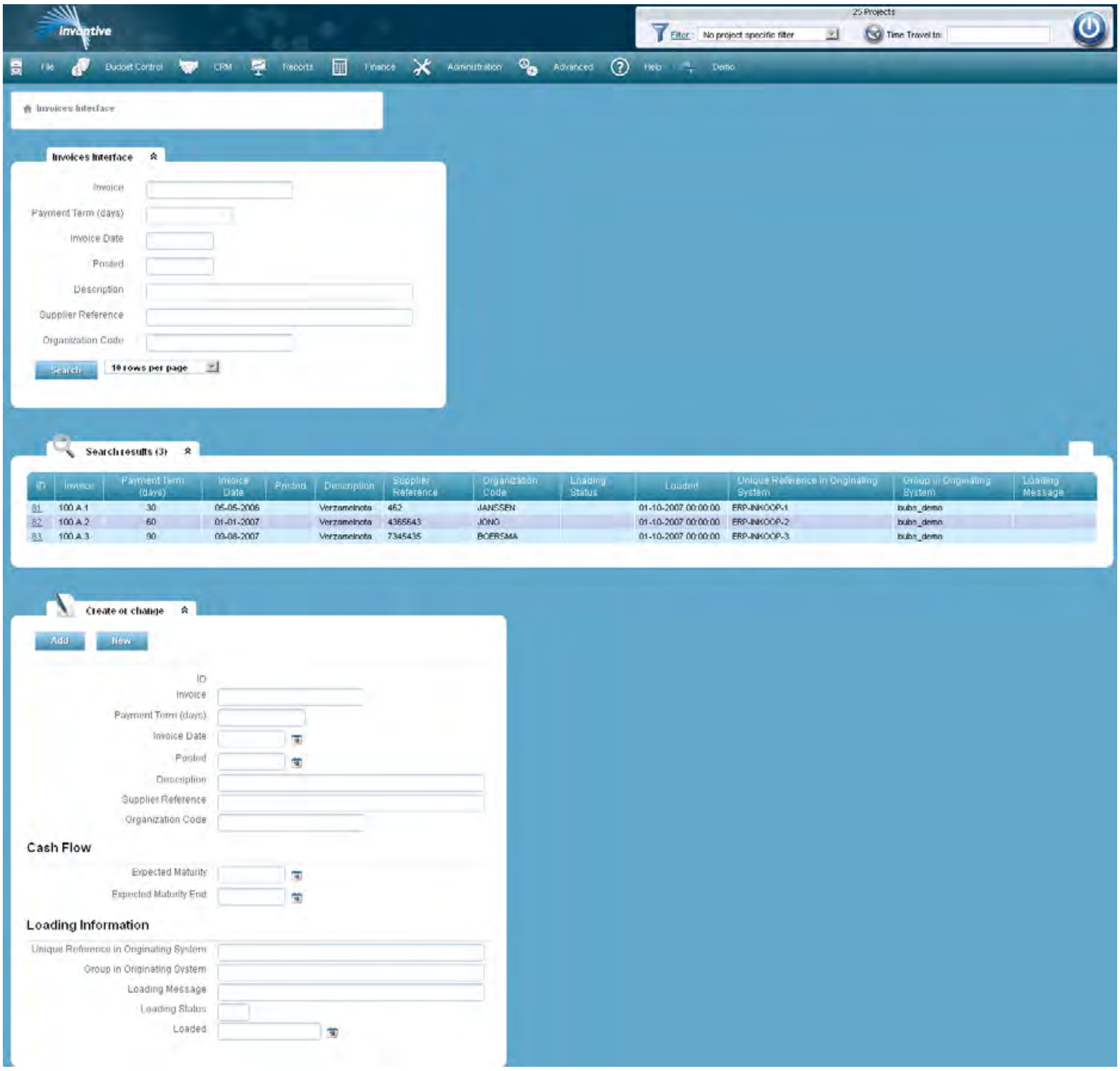
Invoices Interface

Using the screen you can exchange invoice data with an ERP system.

The ERP system transfers data into 'load tables' in Invantive Estate. With the interface screens in Invantive Estate you can edit the data in these 'load tables' and save the edited data into 'target tables'.

Profile Options 253 are used to manage the process where 'load tables' are loaded or to save the data of the load tables into 'target tables'.

When entering data in the entry fields 18 of the interface screens, you should use internal codes. For example when indicating the gender of a person you use ‘M’ for ‘Male‘ and ‘F’ for ‘Female’.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Invoices Interface
Invoice
Payment Term (days)
Invoice Date
Posted
Description
Supplier Reference
Organization Code
Search
10 rows per page
Search results (3)
Create or change
Add
New
ID
Cash Flow
Expected Maturity
Expected Maturity End
Loading Information
Unique Reference in Originating System
Group in Originating System
Loading Message
Loading Status
Loaded

ID	Invoice	Payment Term (days)	Invoice Date	Posted	Description	Supplier Reference	Organization Code	Loading Status	Loaded	Unique Reference in Originating System	Group in Originating System	Loading Message
81	100 A.1	30	05-05-2006		Verzamelnota	462	JANSSEN		01-10-2007 00:00:00	ERP-INKOOP-1	bubs_demo	
82	100 A.2	60	01-01-2007		Verzamelnota	4365643	JONG		01-10-2007 00:00:00	ERP-INKOOP-2	bubs_demo	
83	100 A.3	90	09-08-2007		Verzamelnota	7345435	BOERSMA		01-10-2007 00:00:00	ERP-INKOOP-3	bubs_demo	

The meaning of the entry fields is:

Invoice	An invoice can be sent by a supplier, can be sent to a client or can be created by the ledger system. An invoice can contain several Invoice Lines 138.
Payment Term (days)	The payment period in days of the invoice. This information is used when calculating the cash flow .
Invoice Date	The date as registered on the invoice.
Description	An explanation of the invoice.
Supplier Reference	The unique feature of the invoice of the sender. This field can be used to register the invoice number of the supplier in case the code of the invoice is based on its own invoice numbering.
Organization Code	The unique code of the organization (supplier) that has sent the invoice or the customer where the invoice has been sent to. Choose a generic supplier or buyer in the case of journal entries from the general ledger.
Cash Flow	
Expected Maturity	The date the cash flow for this order is expected to begin.
Expected Maturity End	The date the cash flow for this order is expected to finish. The maturity date is only relevant if the cash flow projection method needs it.
Loading Information	

Unique reference in Source System	Reference to the record in the system of origin with which the record can be identified.
Group in Originating System	Reference to a group of records in the system of origin. The grouping of records is often used to validate the loading process using 'application control'.
Loading Message	Displays a message on the most recent action of loading a record.
Loading Status	Displays status information about the loading process of the record. 'E' = 'Error' and 'C' = 'Completed'. The completed load statuses will be automatically deleted at the end of the ERP processing.
Loaded	The point of time the record was loaded by the ERP interface.

The meaning of the other fields:

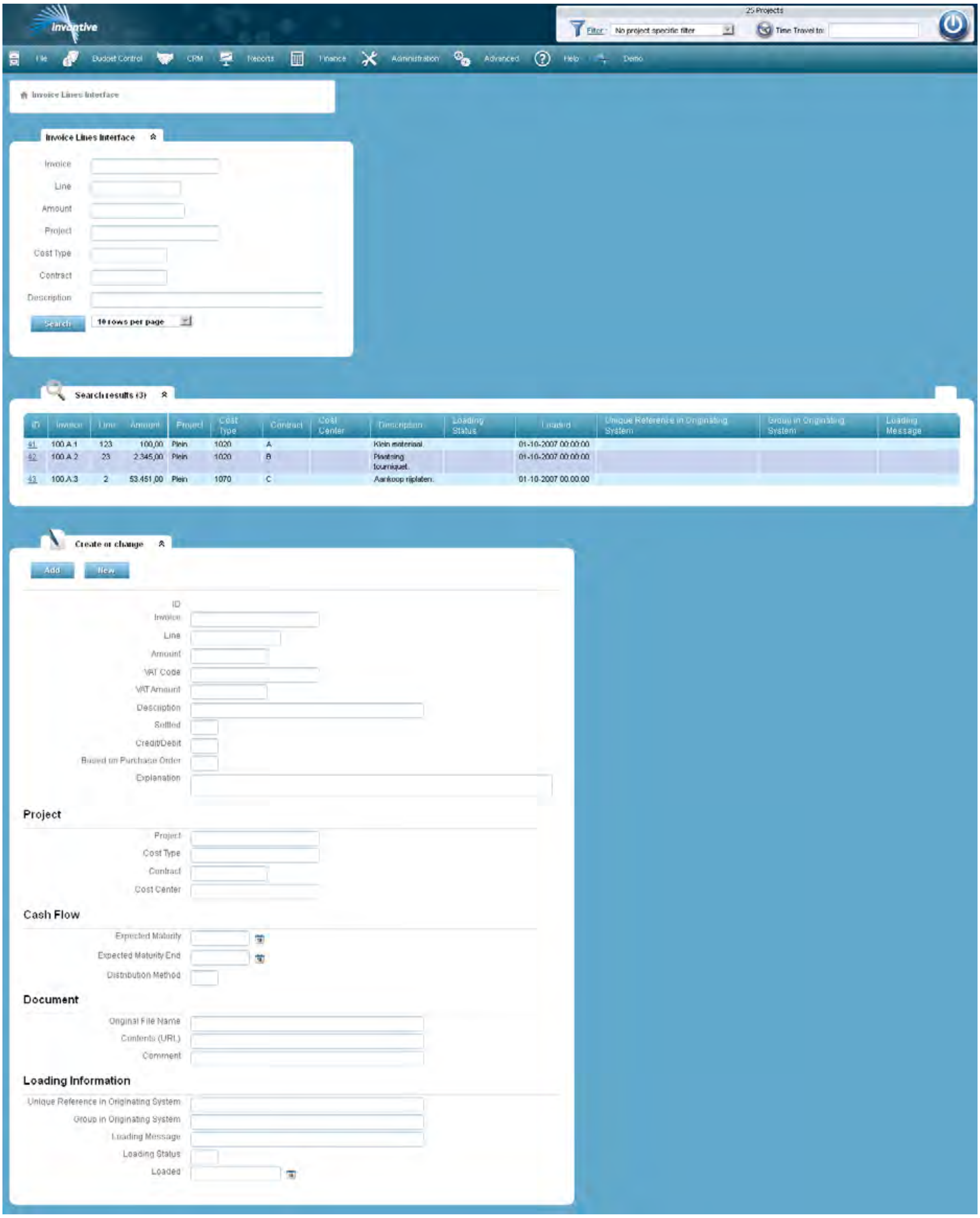
Id	The technical code with which the invoice can be identified.

Invoice Lines Interface

Via this screen, invoice line date can be exchanged with an ERP system.

The ERP system transfers data into 'load tables' in Invantive Estate. With the interface screens in Invantive Estate you can edit the data in these 'load tables' and save the edited data into 'target tables'.

Profile Options 253 are used to manage the process where 'load tables' are loaded or to save the data of the load tables into 'target tables'.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Invoice Lines Interface
Invoice Lines Interface
Invoice
Line
Amount
Project
Cost Type
Contract
Description
Search
10 rows per page
Search results (3)
Create or change
Add
New
ID
Invoice
Line
Amount
VAT Code
VAT Amount
Description
Settled
Credit/Debit
Based on Purchase Order
Explanation
Project
Project
Cost Type
Contract
Cost Center
Cash Flow
Expected Maturity
Expected Maturity End
Distribution Method
Document
Original File Name
Contents (URL)
Comment
Loading Information
Unique Reference in Originating System
Group in Originating System
Loading Message
Loading Status
Loaded

ID	Invoice	Line	Amount	Project	Cost Type	Contract	Cost Center	Description	Loading Status	Loaded	Unique Reference in Originating System	Group in Originating System	Loading Message
41	100.A.1	123	100,00	Plein	1020	A		Klein materiaal.		01-10-2007 00:00:00			
42	100.A.2	23	2.345,00	Plein	1020	B		Plaatsing tourniquet.		01-10-2007 00:00:00			
43	100.A.3	2	53.451,00	Plein	1070	C		Aankoop rijplaten.		01-10-2007 00:00:00			

The meaning of the entry fields is:

Invoice	The invoice code. In general the internally assigned invoice number will be used here.
Line	The line number within the invoice.
Amount	The amount invoiced. This normally will be the amount without VAT. In case your organization is not VAT payable, the amount must be entered including VAT.
VAT Code	The VAT code that applies to the invoice.
VAT Amount	The VAT amount on the invoice.
Description	A description of the products, activity or situation to which the invoice relates to.
Settled	If the checkbox is checked then the payable invoice line.

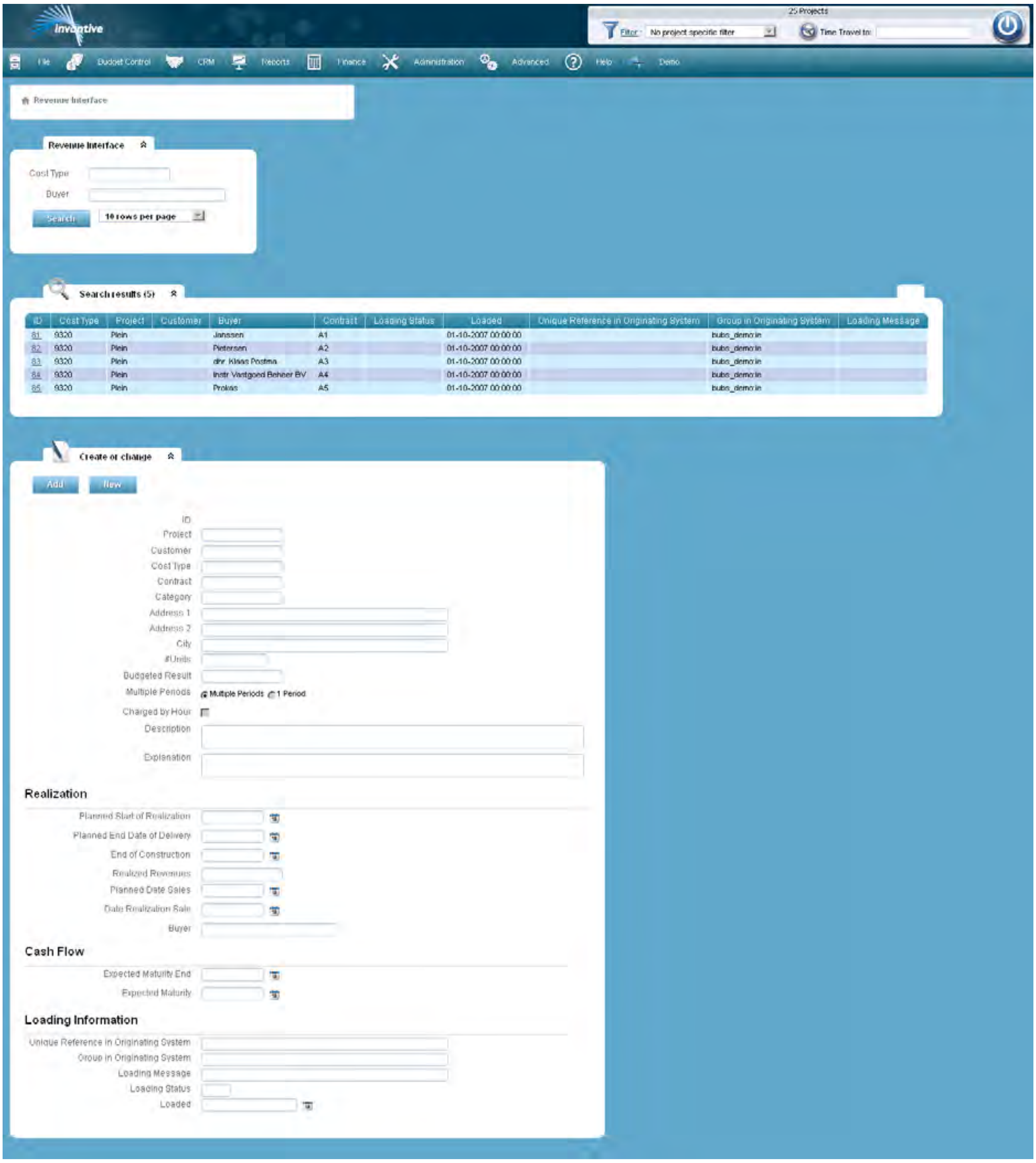
Credit/debit	In case of a cost driver: does it concerns a regular entry (debit) or a credit entry? In case of a revenue: does it concerns a regular entry (credit) or debit entry?
With Purchase Order	In case of a cost driver: is the realization based on an order? In case of a revenue: is the realization based on a contractual sales agreement?
Explanation	Possible explanation.
Project	
Project	The project to which the realization refers.
Cost Type	The cost category to which the realization refers. All cost categories can be chosen (costs, revenues, and results).
Contract	The contract within the cost category to which the invoice line refers.
Cost center	Reference to a cost center as defined in the screen Cost Centers 192.
Cash Flow	
Expected Maturity	The expected date when the cash flow starts.
Expected Maturity End	The expected date when the cash flow ends.
Distribution Method	The way the cash flow is distributed in time.
Document	
Original File Name	The name of the invoice line file in the source system.
Content (URL)	Location of the invoice line file.
Comments	Explanation of the file.
Loading Information	
Unique Reference in Source System	Reference with which the record in the system of origin can be identified.
Group in Originating System	Reference to a group of records in the system of origin. The grouping of records is often used to validate the loading process using 'application control'.
Loading Message	Displays status information about the loading process of the record.
Loading Status	Displays status information about the loading process of the record. 'E' = 'Error' and 'C' = 'Completed'. The completed load statuses will be automatically deleted at the end of the ERP processing.
Loaded	The point of time the record was loaded by the ERP interface.

The meaning of the other fields:

Id	The technical code with which the invoice line can be identified.

Revenue Interface

Using the screen you can exchange invoice data with an ERP system.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Revenue Interface
Revenue Interface
Cost Type
Buyer
Search
10 rows per page
Search results (5)
Create or change
Add
New
ID
Project
Customer
Cost Type
Contract
Category
Address 1
Address 2
City
#Units
Budgeted Result
Multiple Periods
Multiple Periods
1 Period
Charged by Hour
Description
Explanation
Realization
Planned Start of Realization
Planned End Date of Delivery
End of Construction
Realized Revenues
Planned Date Sales
Date Realization Sale
Buyer
Cash Flow
Expected Maturity End
Expected Maturity
Loading Information
Unique Reference in Originating System
Group in Originating System
Loading Message
Loading Status
Loaded

ID	Cost Type	Project	Customer	Buyer	Contract	Loading Status	Loaded	Unique Reference in Originating System	Group in Originating System	Loading Message
81	9320	Plein		Janssen	A1		01-10-2007 00:00:00		bubs_demo:in	
82	9320	Plein		Pietersen	A2		01-10-2007 00:00:00		bubs_demo:in	
83	9320	Plein		dhr. Klaas Postma	A3		01-10-2007 00:00:00		bubs_demo:in	
84	9320	Plein		Instr Vastgoed Beheer BV	A4		01-10-2007 00:00:00		bubs_demo:in	
85	9320	Plein		Prokas	A5		01-10-2007 00:00:00		bubs_demo:in	

The meaning of the entry fields is:

Project	The project of which the revenue is part of. A combination of project code and project name.
Cost Type	The cost category on which the revenue is registered. Often different cost category are used for different types of units. Only cost categories can be chosen from the master roll up of the type 'Revenues'.
Contract	The contract for the grouping of a revenue. Two revenues cannot share the same contract.
Category	The type of revenue. See also Revenue Types 176.
Address 1	The address where the revenues are earned.
Address 2	An alternative address where the revenues are realized.
City	The place where the revenues are realized.
#Units	The number of units, expressed in units related to the category. Houses are generally expressed in 'Numbers', while 'Commercial Space' is expressed in 'm2'.
Budgeted Result	The budgeted result of the unit.
Multiple Pe-	An indicator if more than one invoice will be sent in order to charge the agreed revenue. In case '1 period' is

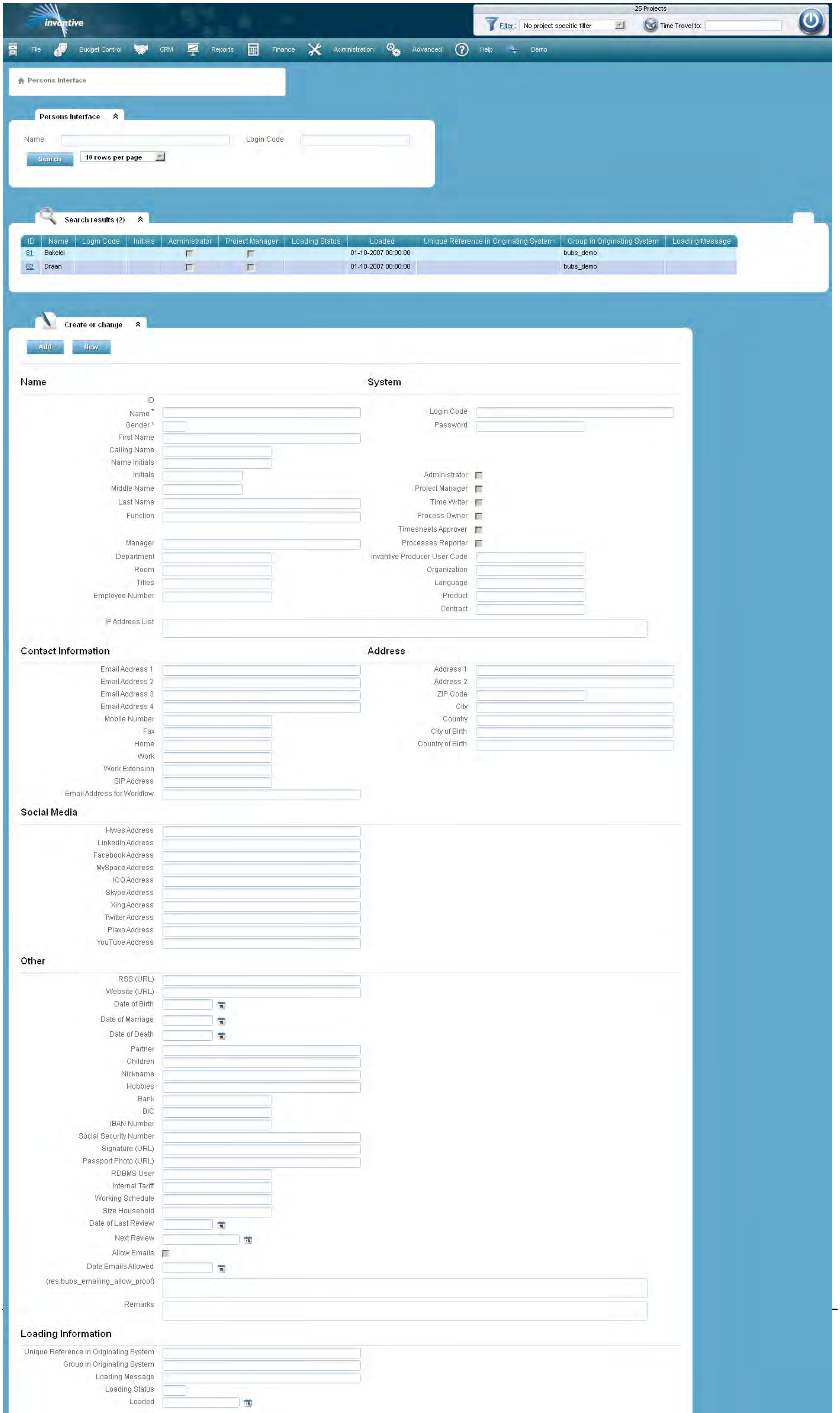
riods	selected and the field 'realized revenues' is not entered or entered differently, the first invoice of this revenue will be treated as the realized revenue.
Charged by Hour	The activities will be charged by hour if selected.
Description	A description of the products, activity or situation where revenues relate to.
Explanation	An informative explanation such as the expected start or duration of the rental period.
Realization	
Planned Start of Realization	The planned date to start realization.
Planned End Date of Delivery	The planned date of handover of the units.
End of Construction	The actual end date of construction of the units.
Realised Revenues	The realized revenue per unit. This is filled out as soon as the contractual agreement is signed. Note that reports may show a different contract revenue as entered here if '1 period' is selected in the field 'Multiple Periods' and an invoice with contract is sent. In this case the reports will always show the total invoice amount instead of the here entered realized revenues.
Planned Date Sales	The expected date that the customer will sign the sales contract.
Date Realization Sale	The date when the sales contract was signed.
Buyer	The name of the buyer.
Cash Flow	
Expected Maturity End	The date the cash flow for this revenue is expected to finish. The maturity date is only relevant if the cash flow projection method needs it.
Expected Maturity	The date the cash flow for revenue is expected to begin.
Loading Information	
Unique Reference in Source System	Reference with which the record in the system of origin can be identified.
Group in Originating System	Reference to a group of records in the system of origin. The grouping of records is often used to validate the loading process using 'application control'.
Loading Message	Displays status information about the loading process of the record.
Loading Status	Displays status information about the loading process of the record. 'E' = 'Error' and 'C' = 'Completed'. The completed load statuses will be automatically deleted at the end of the ERP processing.
Loaded	The point of time the record was loaded by the ERP interface.

The meaning of the other fields:

Id	The technical code with which the revenue can be identified.

Persons Interface

Using this screen you can exchange personal data with an ERP system.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Persons Interface
Persons Interface
Name
Login Code
Search
10 rows per page
Search results (2)
Create or change
Add
New
Name
ID
Name *
Gender *
First Name
Calling Name
Name Initials
Initials
Middle Name
Last Name
Function
Manager
Department
Room
Titles
Employee Number
IP Address List
System
Login Code
Password
Administrator
Project Manager
Time Writer
Process Owner
Timesheets Approver
Processes Reporter
Invantive Producer User Code
Organization
Language
Product
Contract
Contact Information
Email Address 1
Email Address 2
Email Address 3
Email Address 4
Mobile Number
Fax
Home
Work
Work Extension
SIP Address
Email Address for Workflow
Address
Address 1
Address 2
ZIP Code
City
Country
City of Birth
Country of Birth
Social Media
Hyves Address
LinkedIn Address
Facebook Address
MySpace Address
ICQ Address
Skype Address
Xing Address
Twitter Address
Plaxo Address
YouTube Address
Other
RSS (URL)
Website (URL)
Date of Birth
Date of Marriage
Date of Death
Partner
Children
Nickname
Hobbies
Bank
BIC
IBAN Number
Social Security Number
Signature (URL)
Passport Photo (URL)
RDBMS User
Internal Tariff
Working Schedule
Size Household
Date of Last Review
Next Review
Allow Emails
Date Emails Allowed
(res:bubs_emailing_allow_proof)
Remarks
Loading Information
Unique Reference in Originating System
Group in Originating System
Loading Message
Loading Status
Loaded

ID	Name	Login Code	Initials	Administrator	Project Manager	Loading Status	Loaded	Unique Reference in Originating System	Group in Originating System	Loading Message
81	Bakelei			☐	☐		01-10-2007 00:00:00		bubs_demo	
82	Draan			☐	☐		01-10-2007 00:00:00		bubs_demo	

The meaning of the entry fields is:

Name	
Name	The name of the person.
Gender	The gender of the person.
Initials	The initials of the person.
Initials	The unique abbreviation of the name. The initials are used in reports or in screens when there is not enough space available to show the whole name.
Middle Name	Middle name of the person.
Function	The function of the person within the company.
Business	The company where the person is employed.
Manager	The manager or supervisor of the person.
Employee Number	Identification number of the person within the organization where the person is employed.
System	
Username	The code with which the person can log in (see Start up and Login 7). The user cannot log in if this field is not filled out.
Password	The password of the user. The user can change this password via screen My Preferences 43.
Administrator	If this box is checked, the user is shown in the list of administrators in the screen where projects are uploaded (see Projects 124).
Project developer	If this box is checked, the user is shown in the list of administrators in the screen where projects are uploaded (see Projects 124).
Surname	Surname.
Time Writer	If this box is checked, the user is shown in the list of persons that are allowed to write hours in the screen Timesheets 143.
Process Holder	In case this box is checked, the user is shown in the list of process holders in the screen where you can register processes (see Processes) 53.
Signs timesheets	In case this box is checked, the user is shown in the list of timesheet signers in the project screen (see Projects 124).
Process Detector	In case this box is checked, the user is shown in the list of process reporters in the screen where you can register processes (see Processes) 53.
Contact Information	
Email address 1	The email address of the person. The application uses this email address in case it needs to send messages to the user.
Email Address 2	A second alternative email address of the person.
Email Address 3	A second alternative email address of the person.
Email Address 4	A fourth alternative email address of the person.
Mobile Number	The mobile number of the person.
Fax	The fax number of the person.
Home	The phone number where the person can be reached at home.
Address	
Address 1	Address of the person (for example, street and house number)
Address 2	Extra address line, in case needed.
Zip Code	Postal code.
City	Place of residence
Country	Country of residence.
Other	
Date of Birth	The birth date of the user (only relevant for persons who 'represent physical persons'.
Date of Death	The date of death.
Partner	The name of the partner.
Children	The names of any children, separated by a randomly chosen separator.
Nickname	The nickname
Hobbies	The hobbies.
IBAN Number	The IBAN of the bank account of the person.
Remarks	Free text box where notes on the person can be added.
Loading Information	

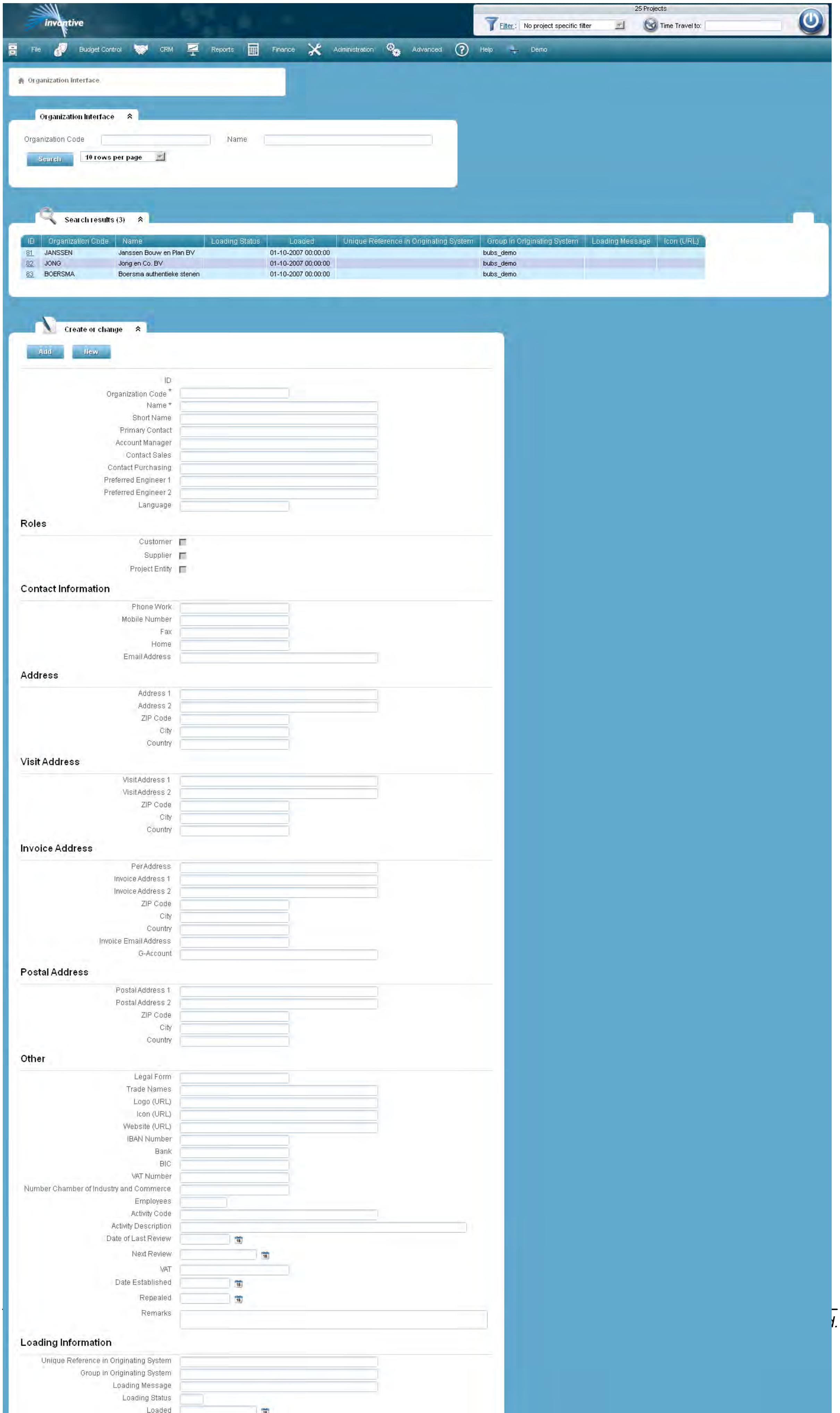
Unique Reference in Originating System	Reference with which the record in the system of origin can be identified.
Group in Originating System	Reference to a group of records in the system of origin. The grouping of records is often used to validate the loading process using ‘application control’.
Loading Message	Displays a message on the most recent action of loading a record.
Loading Status	Displays status information about the loading process of the record. ‘E’ = ‘Error’ and ‘C’ = ‘Completed’. The completed load statuses will be automatically deleted at the end of the ERP processing.
Loaded	The point of time the record was loaded by the ERP interface.

The meaning of the other fields:

Id	The technical code with which the person can be identified.

Organization Interface

Through this screen, data can be exchanged with organizations on an ERP system.


invantive
25 Projects
Filter : No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Organization Interface
Organization Interface
Organization Code
Name
Search
10 rows per page
Search results (3)
Create or change
Add
New
ID
Organization Code *
Name *
Short Name
Primary Contact
Account Manager
Contact Sales
Contact Purchasing
Preferred Engineer 1
Preferred Engineer 2
Language
Roles
Customer
Supplier
Project Entity
Contact Information
Phone Work
Mobile Number
Fax
Home
Email Address
Address
Address 1
Address 2
ZIP Code
City
Country
Visit Address
Visit Address 1
Visit Address 2
ZIP Code
City
Country
Invoice Address
Per Address
Invoice Address 1
Invoice Address 2
ZIP Code
City
Country
Invoice Email Address
G-Account
Postal Address
Postal Address 1
Postal Address 2
ZIP Code
City
Country
Other
Legal Form
Trade Names
Logo (URL)
Icon (URL)
Website (URL)
IBAN Number
Bank
BIC
VAT Number
Number Chamber of Industry and Commerce
Employees
Activity Code
Activity Description
Date of Last Review
Next Review
VAT
Date Established
Repealed
Remarks
Loading Information
Unique Reference in Originating System
Group in Originating System
Loading Message
Loading Status
Loaded

ID	Organization Code	Name	Loading Status	Loaded	Unique Reference in Originating System	Group in Originating System	Loading Message	Icon (URL)
81	JANSSEN	Janssen Bouw en Plan BV		01-10-2007 00:00:00		bubs_demo		
82	JONG	Jong en Co. BV		01-10-2007 00:00:00		bubs_demo		
83	BOERSMA	Boersma authentieke stenen		01-10-2007 00:00:00		bubs_demo		

The meaning of the entry fields is:

Organization Code	The code with which the organization is identified within the administration.
Name	The name of the organization.
Short Name	The abbreviated name of the organization.
Primary contact	The contact of the organization, appointed within the framework of the project. In many cases this will be the responsible account manager.
Salesman	The person responsible for the sales of the organization.
Contact Sales	The contact of the organization, appointed within the framework of sales.
Contact Purchasing	The contact of the organization, appointed within the framework of purchasing.
Roles	
Customer	The external or internal customer. For him the outcome of the project plays a role in the fulfillment of a mission or otherwise formulated objectives. The Project Manager is held responsible for its project by the external or internal customer.
Supplier	Can be used as a supplier when entering new orders in Orders 65 or when entering new last estimates in Last Estimates 67. Do not check if the supplier is only used to relate realization figures based on invoice lines, for example, for artificial suppliers for results taken.
Project entity	The project is executed by an organization. This organization can be the same as the organization of the client. For most projects, this is not the case. The project manager also has to report within the organization which executes the project. The person to whom the project manager reports within its organization (the same as to the external customer) is the internal client..
Contact Information	
Phone Work	The telephone number where the contact of the organization can be reached at work.
Mobile Number	The mobile number of the contact of the organization.
Fax	The fax number of the organization.
Home	The telephone number where the contact of the organization can be reached at home.
Email Address	The email address of the contact.
Address	
Address 1	The address of the organization.
Address 2	An alternative address of the organization if the organization has several establishments.
Zip Code	The zip code.
City	The municipality where the organization is located.
Country	The country where the organization is located.
Visit Address	
Visitor Address 1	Address for visitors.
Visitor Address 2	Alternative Address for visitors.
Zip Code	The zip code.
City	The city of the visitor address.
Country	The country of the visitor address.
Invoice Address	
Per Address	Option to use a invoice address that does not belong to the organization.
Invoice Address 1	Address that is used for invoicing.
Invoice Address 2	Alternative address that can be used for invoicing.
Zip Code	The zip code.
City	The city of the invoice address.
Country	The country of the invoice address.
G account	The G account number of the organization. A G account is a blocked account that can be used by contractors to pay wage taxes (with or without VAT) of their employees to the tax authorities or to subcontractors. From a G account you cannot make other payments. The account protects parties against defaults of wage taxes.
Postal Address	
Postal Address 1	Postal address of the organization.
Postal Address 2	Alternative mailing address of the organization.
Zip Code	The zip code.
City	The city of the postal address.

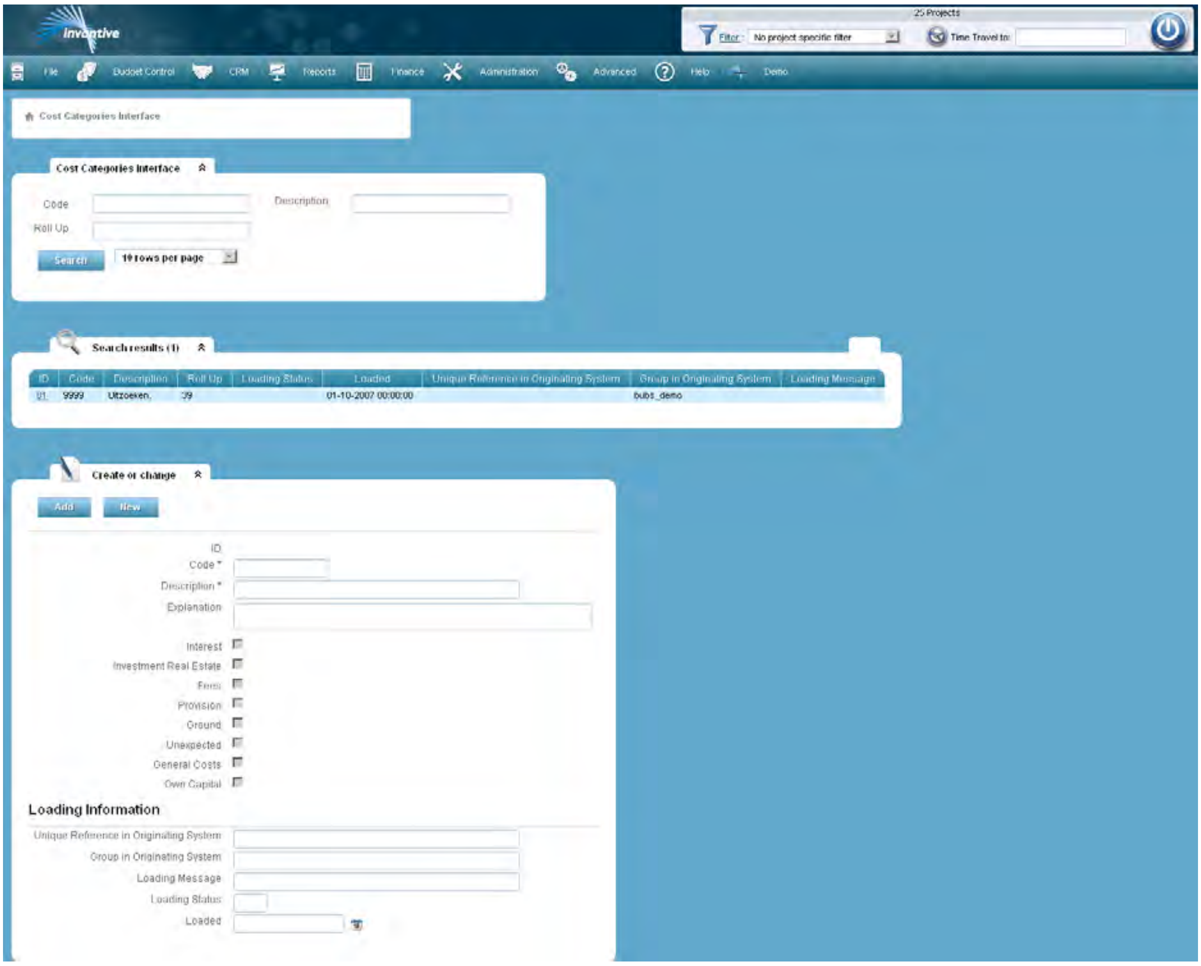
Country	The country of the postal address.
Other	
Legal Form	A unique alphanumeric code for the legal form of the organization.
Logo (URL)	The Internet address where the logo can be requested.
Icon (URL)	The Internet address where the icon can be requested.
Website (URL)	The Internet address of the website if the organization has a website.
IBAN Number	The International Banc Account Number of the organization. The IBAN identifies an individual bank account and is used in cross border payments.
VAT Number	The VAT number of the organization that is intended to settle the VAT with the tax authorities.
Number Chamber of Industry and Commerce	The number with which the organization is registered at the Chamber of Commerce.
Date Established	The date of creation of the organization as a legal entity.
Repealed	The repeal date of the organization as a legal entity.
Remarks	Any additional information about the organization can be included in this field.
Loading Information	
Unique Reference in Originating System	Reference with which the record in the system of origin can be identified.
Group in Originating System	Reference to a group of records in the system of origin. The grouping of records is often used to validate the loading process using ‘application control’.
Loading Message	Displays a message on the most recent action of loading a record.
Loading Status	Displays status information about the loading process of the record. ‘E’ = ‘Error’ and ‘C’ = ‘Completed’. The completed load statuses will be automatically deleted at the end of the ERP processing.
Loaded	The point of time the record was loaded by the ERP interface.

The meaning of the other fields:

ID	The technical code with which the revenue can be identified.

Cost Categories Interface

This screen cost categories can be exchanged with an ERP system.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Cost Categories Interface
Cost Categories Interface
Code
Description
Roll Up
Search
10 rows per page
Search results (1)
Create or change
Add
New
ID
Code *
Description *
Explanation
Interest
Investment Real Estate
Fees
Provision
Ground
Unexpected
General Costs
Own Capital
Loading Information
Unique Reference in Originating System
Group in Originating System
Loading Message
Loading Status
Loaded

ID	Code	Description	Roll Up	Loading Status	Loaded	Unique Reference in Originating System	Group in Originating System	Loading Message
01	9999	Uitzoeken.	39		01-10-2007 00:00:00		bubs_demo	

The meaning of the entry fields is:

Code	The code of the cost category.
Description	The description of the cost category.
Explanation	Free text.
Interest	This cost category is treated as interest if this box is checked.
Investment Real Estate	This cost category is treated as investment property if this box is checked.
Fees	This cost category is treated as Developer Costs if this box is checked.
Provision	This cost category is treated as a provision if this box is checked.
Ground	This cost category is treated as acquisition costs for land if this box is checked.
Unexpected	This cost category is treated as a reserve for contingencies if this box is checked.
General Costs	This cost category is treated as general expenses if this box is checked.
Own Capital	This cost category is treated as owner's capital if this box is checked.
Unique Reference in Originating System	Reference with which the record in the system of origin can be identified.
Group in Originating System	Reference to a group of records in the system of origin. The grouping of records is often used to validate the loading process using ‘application control’.
Loading Message	Displays a message on the most recent action of loading a record.
Loading Status	Displays status information about the loading process of the record. ‘E’ = ‘Error’ and ‘C’ = ‘Completed’. The completed load statuses will be automatically deleted at the end of the ERP processing.
Loaded	The point of time the record was loaded by the ERP interface.

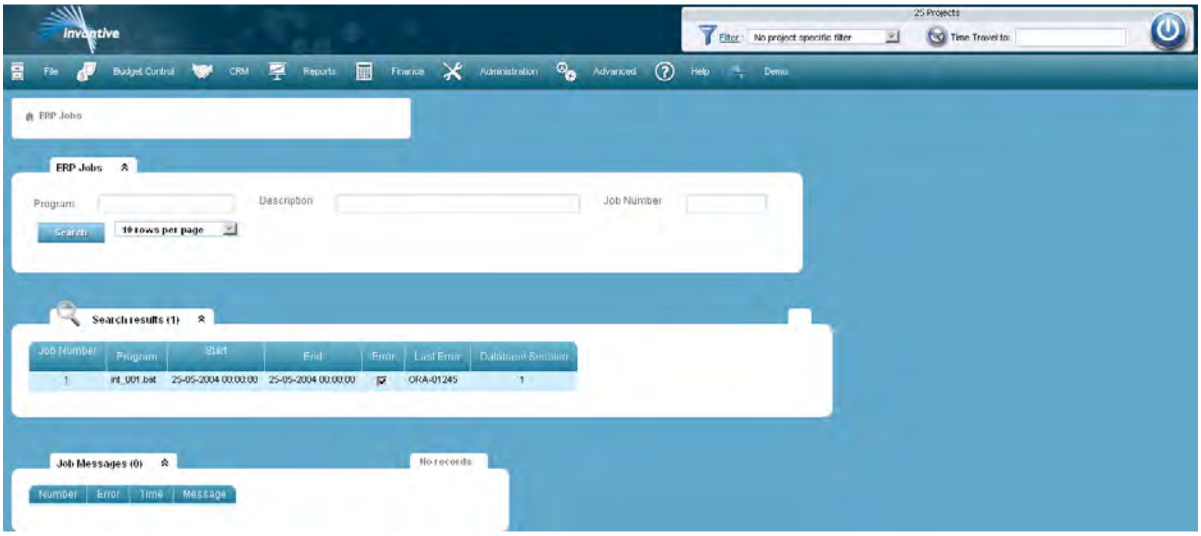
The meaning of the other fields:

Id	The technical code with which the cost category can be identified.

ERP Jobs

In this screen you can see notifications from the ERP updates.

An ERP update is started via Retrieve data from ERP 246. The messages are retained for a certain time. You can set the retention period via Settings 336.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
ERP Jobs
ERP Jobs
Program
Description
Job Number
Search
10 rows per page
Search results (1)
Job Messages (0)
No records
Number
Error
Time
Message

Job Number	Program	Start	End	Error	Last Error	Database Session
1	int_001.bat	25-05-2004 00:00:00	25-05-2004 00:00:00	☑	ORA-01245	1

There are no entry fields. When processing an ERP job only the last error is shown in case multiple errors have occurred. When you select the ERP process you will see all messages. By sorting on the column ‘Error’ all error messages will appear on top.

Retrieve Data

With this screen you can retrieve data from the ERP system.

The data will not be modified or deleted within the ERP system .

The ERP system provides the figures on realization that are used in Invantive Estate. The following data is uploaded:

- Cost Categories.
- Revenues.
- Persons.
- Organizations.
- Mutations Ledger (debtors, creditors, memorial).

The data can be retrieved from Associated Master Administrations 248 or from all ERP administrations where Invantive Estate is connected to via Associated Financial Administrations 248.

When data is exchanged, the program checks whether this data is already present. If this is not the case, the ERP system is used and data is uploaded, stored and added to Invantive Estate. If this data is already present, action is taken depending on the kind of data:

- Cost Categories: changing the description. Other changes are not accepted.
- Revenues: all changes are accepted.
- Persons: Changing a name. Other changes are not accepted.
- Organizations: changing a name. Other changes are not accepted.
- General Ledger mutations: print a warning that - after processing and retrieving- the entry is changed . No changes are accepted.

All messages of the processing are stored and can be seen in the screen ERP Jobs 246.

The retrieval of data is an intensive process. Therefore, it gets automatically less priority if other users are active.

Time of processing

The total processing of all data from ERP can take several minutes if the filter is not set. To process only a few corrections in the general ledger it is also possible to set in your filter the projects where these mutations refers to. Only data of the projects in the filter are processed.

The way the data is collected can be set in Profile Options 253.

Signal List

This process adds the data which was not added yet. Moreover, the process compares the data in the ERP system to the data saved in Invantive Estate. Possible deviations are saved as a signal list in the output of the process. These lists can be seen in in the screen ERP Jobs 246.

Purge Retrieved General Ledger Information

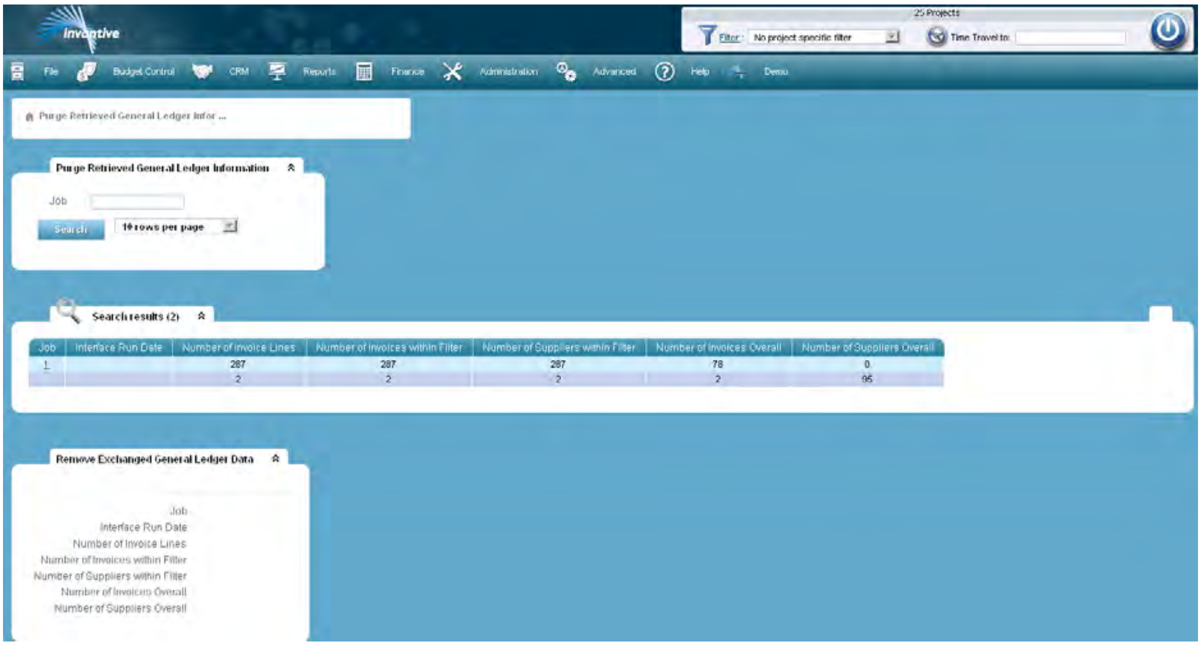
In this screen you can delete transfered invoices and invoice lines.

In incidental cases you can change the data in the ERP system after being processed in Invantive Estate, for example:

- if the administrations in the ERP system are recovered with a backup, changed and subsequently processed again.
- if after closing, mutations are entered in the general ledger because the period is opened.

In all these cases the situation of Invantive Estate will not match anymore with the ERP system. On the signal list as visible in ERP Jobs 246 this kind of problems will be shown as as errors.

In order to actualize the data, in this menu you can turn back the general ledger mutations from the ERP system to the settings of a past date.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Purge Retrieved General Ledger Infor ...
Purge Retrieved General Ledger Information
Job
Search
10 rows per page
Search results (2)
Remove Exchanged General Ledger Data
Job
Interface Run Date
Number of Invoice Lines
Number of Invoices within Filter
Number of Suppliers within Filter
Number of Invoices Overall
Number of Suppliers Overall

Job	Interface Run Date	Number of Invoice Lines	Number of Invoices within Filter	Number of Suppliers within Filter	Number of Invoices Overall	Number of Suppliers Overall
1		287	287	287	78	0
		2	2	2	2	95

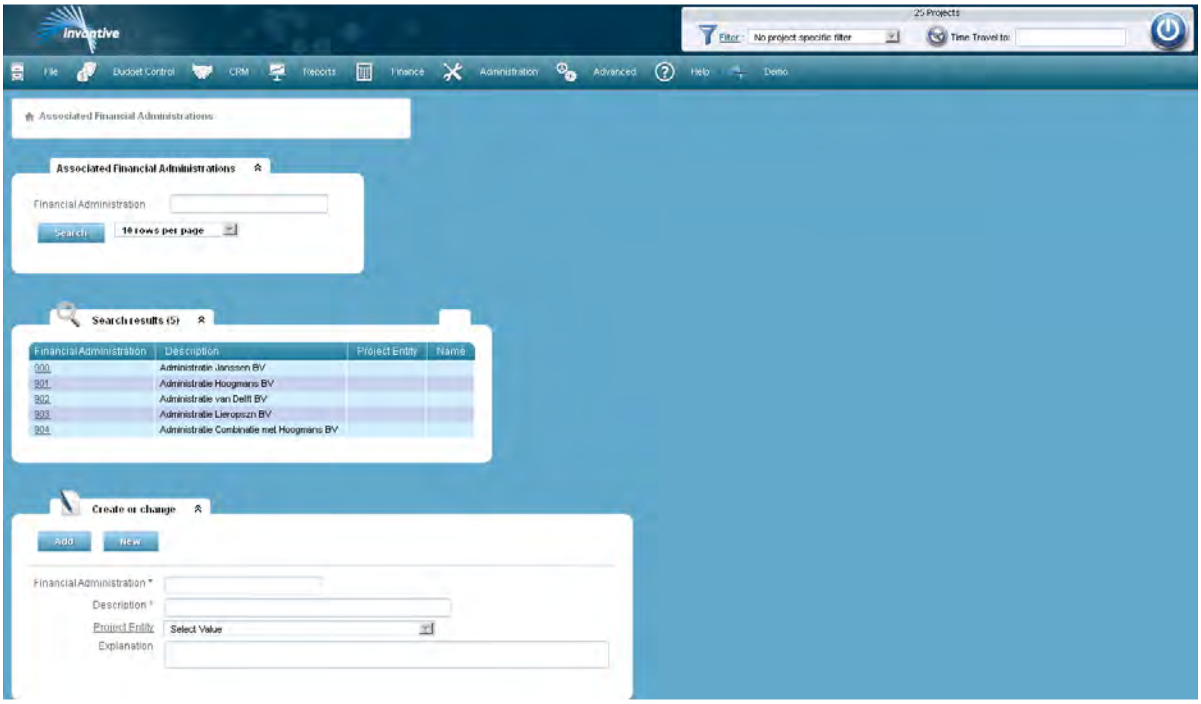
Per interface job it is shown how much data is transferred. These numbers are limited to information related to projects in the filter. If you then select and delete the job, then all invoice lines related to projects in the filter will be deleted. The corresponding invoices are only removed if they no longer have invoice lines.

Associated Financial Administrations

In this form you can change and register the associated financial administrations.

During the data exchange information will be imported from the related financial administrations.

The way the data is retrieved from the master administration or from the associated administrations can be changed for each data type as described in ERP Interface 232.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Associated Financial Administrations
Associated Financial Administrations
Search
10 rows per page
Search results (5)
Create or change
Add
New

Financial Administration

Financial Administration	Description	Project Entity	Name
900	Administratie Janssen BV		
901	Administratie Hoogmans BV		
902	Administratie van Delft BV		
903	Administratie Lieropszn BV		
904	Administratie Combinatie met Hoogmans BV		

Financial Administration *
Description *
Project Entity: Select Value
Explanation

The meaning of the entry fields is:

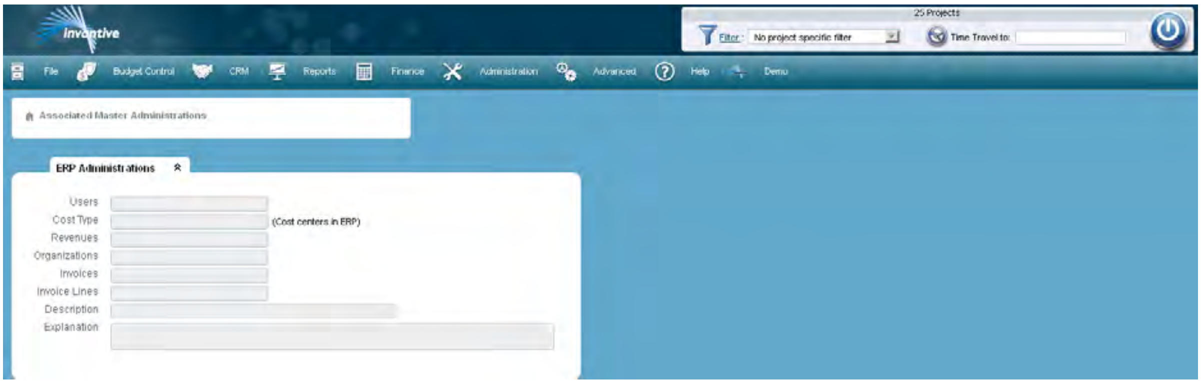
Financial Administration	The code of the financial administration.
Description	The description used for displaying on reports and in screens.
Organization	Reference to a projectentity as registered in Organizations 93.

Associated Master Administrations

In this form you can change and register the associated financial administrations.

During the interfacing data descriptions are retrieved from the master administrations.

The way the data is retrieved from the master administration or from the associated administrations can be changed for each data type as described in ERP Interface 232.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Associated Master Administrations
ERP Administrations
Users
Cost Type
(Cost centers in ERP)
Revenues
Organizations
Invoices
Invoice Lines
Description
Explanation

The meaning of the entry fields is:

Users	The code of the administration where the users are retrieved from.
Cost Type	The code of the administration where the costs category descriptions are retrieved from.
Revenues	The code of the administration where the revenues are retrieved from.
Organization	The code of the administration where the suppliers are retrieved from.
Invoices	The code of the administration where the invoices are retrieved from.
Invoice Lines	The code of the administration where the invoice lines are retrieved from.
Description	The description used for displaying on reports and in screens.
Explanation	Possible explanation.

1.2.8.5 Technical Administration

This chapter contains information concerning the functions that can be found under 'Technical Administration' in a default menu structure.

Functions

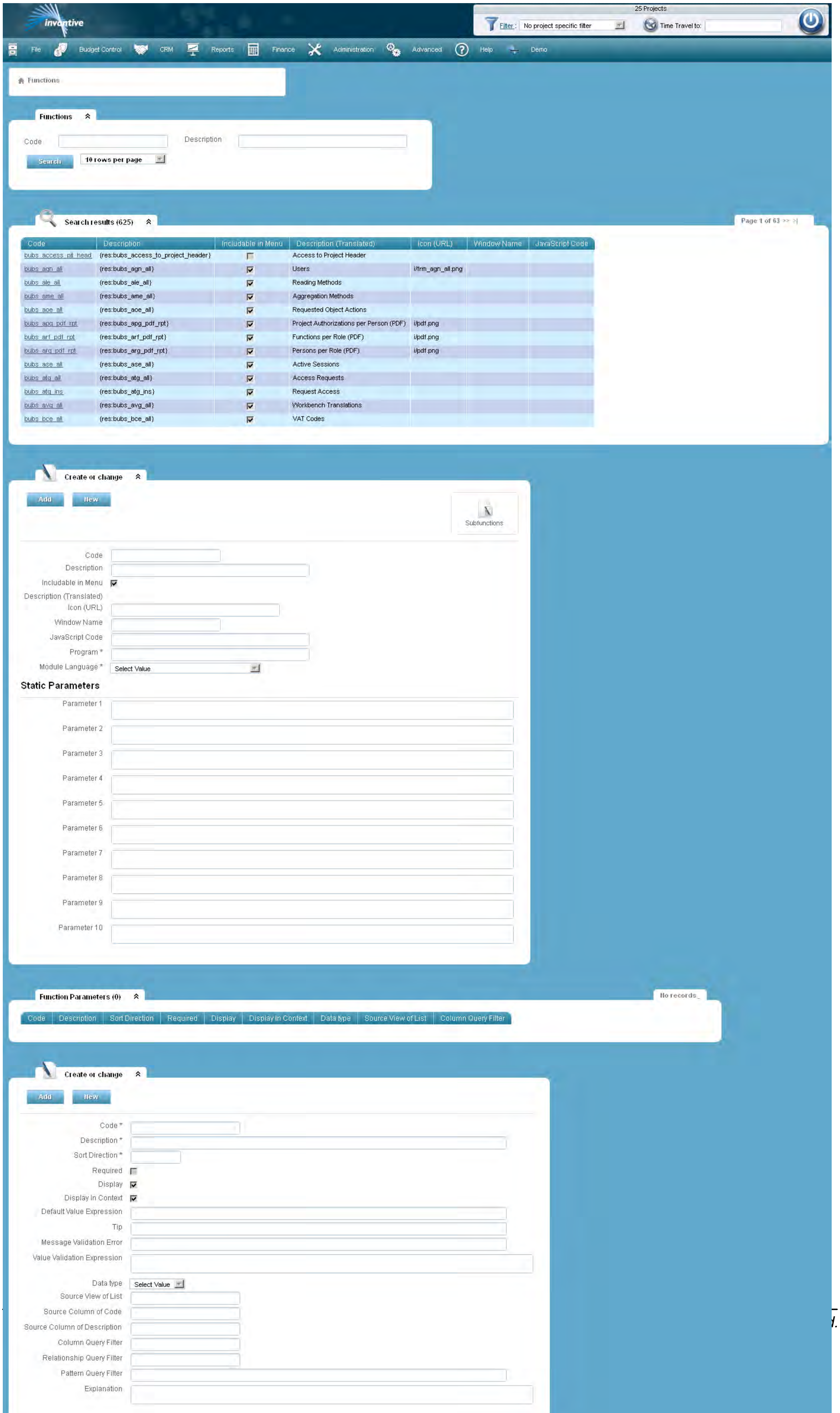
Enter text here.

Functions

In this screen you can register and modify functions.

A function is a form or a report that can be requested via the user interface. Functions do not need to be included into a menu structure in order to use them, but it is recommended for the sake of navigation. See Menus 224 and Menu Items 225 for how to include functions in a menu structure.

The registration of functions is a typical activity for application developers. See the warning under Application Development 272.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Functions
Functions
Search
10 rows per page
Search results (625)
Page 1 of 63 >> >|
Create or change
Add
New
Subfunctions
Function Parameters (0)
No records_
Create or change
Add
New

Code
Description

Code	Description	Includable in Menu	Description (Translated)	Icon (URL)	Window Name	JavaScript Code
bubs_access_pjt_head	{res:bubs_access_to_project_header}	☐	Access to Project Header			
bubs_agn_all	{res:bubs_agn_all}	☑	Users	i/frm_agn_all.png		
bubs_ale_all	{res:bubs_ale_all}	☑	Reading Methods			
bubs_ame_all	{res:bubs_ame_all}	☑	Aggregation Methods			
bubs_aoe_all	{res:bubs_aoe_all}	☑	Requested Object Actions			
bubs_apg_pdf_rpt	{res:bubs_apg_pdf_rpt}	☑	Project Authorizations per Person (PDF)	i/pdf.png		
bubs_arf_pdf_rpt	{res:bubs_arf_pdf_rpt}	☑	Functions per Role (PDF)	i/pdf.png		
bubs_arg_pdf_rpt	{res:bubs_arg_pdf_rpt}	☑	Persons per Role (PDF)	i/pdf.png		
bubs_ase_all	{res:bubs_ase_all}	☑	Active Sessions			
bubs_atg_all	{res:bubs_atg_all}	☑	Access Requests			
bubs_atg_ins	{res:bubs_atg_ins}	☑	Request Access			
bubs_avg_all	{res:bubs_avg_all}	☑	Workbench Translations			
bubs_bce_all	{res:bubs_bce_all}	☑	VAT Codes			

Code
Description
Includable in Menu ☑
Description (Translated)
Icon (URL)
Window Name
JavaScript Code
Program *
Module Language * Select Value

Static Parameters

Parameter 1
Parameter 2
Parameter 3
Parameter 4
Parameter 5
Parameter 6
Parameter 7
Parameter 8
Parameter 9
Parameter 10

Code	Description	Sort Direction	Required	Display	Display In Context	Data type	Source View of List	Column Query Filter

Code *
Description *
Sort Direction *
Required ☐
Display ☑
Display In Context ☑
Default Value Expression
Tip
Message Validation Error
Value Validation Expression
Data type Select Value
Source View of List
Source Column of Code
Source Column of Description
Column Query Filter
Relationship Query Filter
Pattern Query Filter
Explanation

The meaning of the entry fields is:

Code	The code which refers to the function. Here you can also enter a 'http address' like for example: http://www.invantive.com. However it is not allowed to use a relative URL.
Description	The description of the function. This message will be translated with Translations 325.
Includable in Menu	The function can be included in a menu or a submenu when checked
Description (Translated)	The description used for displaying on reports and/or screens.
Icon (URL)	The relative URL of the icon belonging to the function. The icon must be 16 pixels high and 16 pixels wide.
Window Name	The name of the HTML window in which the function is opened in case it was selected via the menu. If the window name has not been entered, the function will be executed in the current window.
Javascript Code	If applicable, here you can include the javascript code associated with the function.
Program	The name of the program that need to be executed.
Module Language	The Module language of the module of which the program is part of as registered in Module Languages 306.

If no javascript and no code in the format http:// or mailto:// or javascript:// was specified then the web page <CODE>.do will be opened.

Subfunctions

In this screen you can register and change subfunctions.

Subfunctions are used to compose reports using several report elements such as; the front page, the general conditions, a task overview.

A subfunction can be set for each report function, for example, for a report that can be requested via the user interface. This is especially possible with the custom reports bubs_custom1-99, see Building Reports 351.

On subfunctions, URL parameters can also be passed. These parameters are then subsequently passed to the report. If multiple parameters are used, they are split by the '&' symbol.

The parameters are being 'unescaped' just like in a URL. The escape function converts a parameter to a string in a URL encoded format whereby all non-alphanumeric characters are replaced with % hexadecimals. To do exactly the opposite you can use unescape.

For example: unescape '% 21' becomes an exclamation, unescape '% 20' becomes a space.

An example of two URL parameters separated with '&' symbol: 'P_TITEL=titel%20vof%20the %report&P_PJT_CODE=123456'.

Reports

Loops

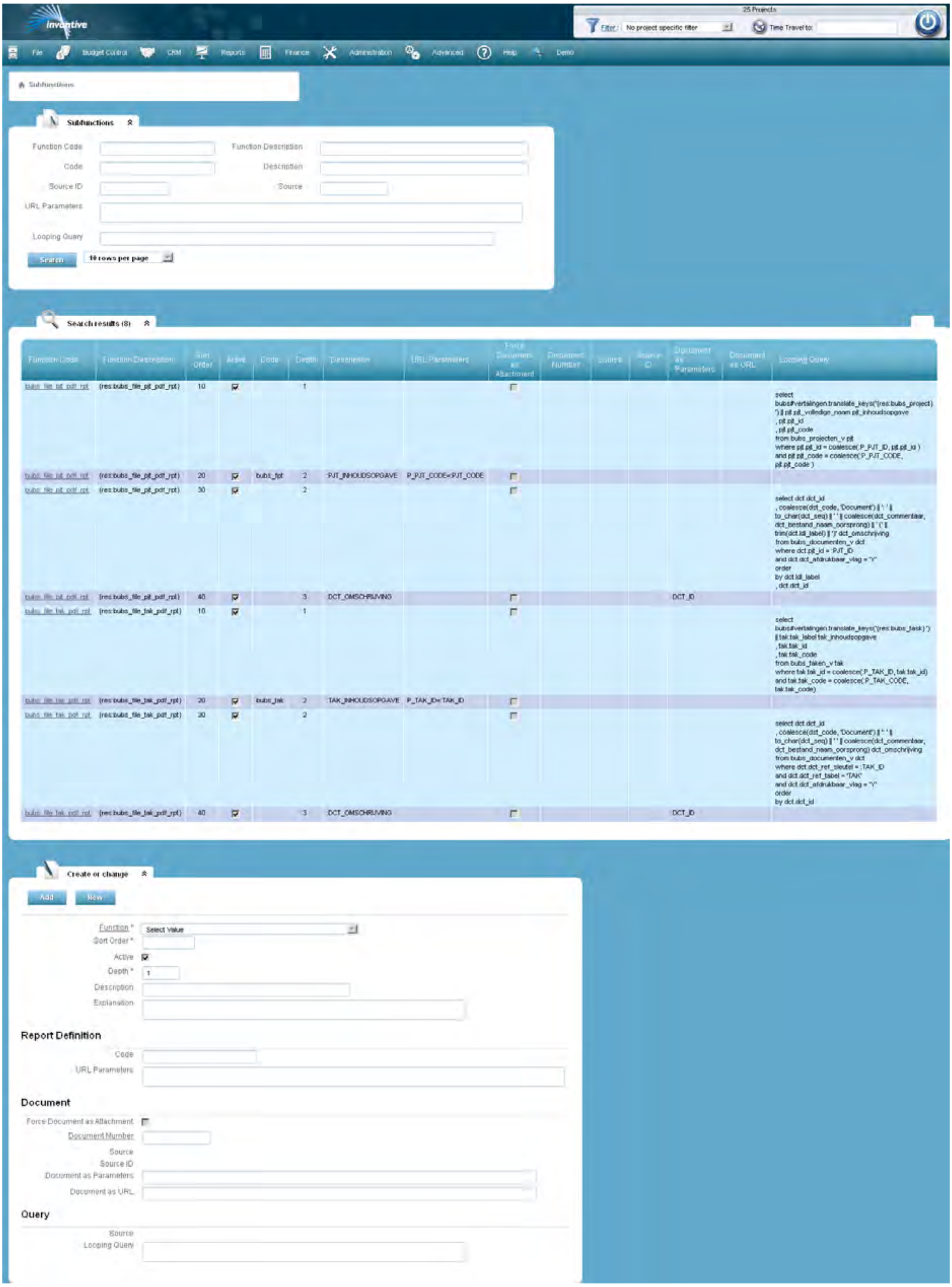
Using subfunctions you can also build loops in reports.

An example:

> For each line in 'select gbr_naam from bubs_gebruikers_v order by gbr_naam' the system runs a report. You can pass on parameters to this report using URL parameters which come from the query. The value of the parameters can be passed on to the report by using the ':' notation. An example of this notation is: `P_GBR_NAAM=:GBR_NAAM`.

The content of a loop is also determined by the use of depth. A loop can contain another loop. The depth of this loop is one. Subsequently, within this 'nested loop' another loop can be included. In that case the depth of the loop will be two. The maximum depth of a loop depends on the programming language and program function that you use.

Documents


invantive
25 Projects
Filter
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Subfunctions
Subfunctions
Function Code
Function Description
Code
Description
Source ID
Source
URL Parameters
Looping Query
Search
10 rows per page
Search results (8)
Create or change
Add
New

Function Code	Function Description	Sort Order	Active	Code	Depth	Description	URL Parameters	Force Document as Attachment	Document Number	Source	Source ID	Document as Parameters	Document as URL	Looping Query
bubs_file_pjt_pdf_rpt	{res:bubs_file_pjt_pdf_rpt}	10	☑		1			☐						select bubs#vertalingen.translate_keys('{res:bubs_project}') ') || pjt.pjt_volledige_naam pjt_inhoudsopgave , pjt.pjt_id , pjt.pjt_code from bubs_projecten_v pjt where pjt.pjt_id = coalesce(:P_PJT_ID, pjt.pjt_id) and pjt.pjt_code = coalesce(:P_PJT_CODE, pjt.pjt_code)
bubs_file_pjt_pdf_rpt	{res:bubs_file_pjt_pdf_rpt}	20	☑	bubs_fpt	2	:PJT_INHOUDSOPGAVE	P_PJT_CODE=:PJT_CODE	☐						
bubs_file_pjt_pdf_rpt	{res:bubs_file_pjt_pdf_rpt}	30	☑		2			☐						select dct.dct_id , coalesce(dct_code, 'Document') || ': ' || to_char(dct_seq) || ' ' || coalesce(dct_commentaar, dct_bestand_naam_oorsprong) || ' (' || trim(dct.ldl_label) || ')' dct_omschrijving from bubs_documenten_v dct where dct.pjt_id = :PJT_ID and dct.dct_afdrukbaar_vlag = 'Y' order by dct.ldl_label , dct.dct_id
bubs_file_pjt_pdf_rpt	{res:bubs_file_pjt_pdf_rpt}	40	☑		3	:DCT_OMSCHRIJVING		☐				DCT_ID		
bubs_file_tak_pdf_rpt	{res:bubs_file_tak_pdf_rpt}	10	☑		1			☐						select bubs#vertalingen.translate_keys('{res:bubs_task}') || tak.tak_label tak_inhoudsopgave , tak.tak_id , tak.tak_code from bubs_taken_v tak where tak.tak_id = coalesce(:P_TAK_ID, tak.tak_id) and tak.tak_code = coalesce(:P_TAK_CODE, tak.tak_code)
bubs_file_tak_pdf_rpt	{res:bubs_file_tak_pdf_rpt}	20	☑	bubs_tak	2	:TAK_INHOUDSOPGAVE	P_TAK_ID=:TAK_ID	☐						
bubs_file_tak_pdf_rpt	{res:bubs_file_tak_pdf_rpt}	30	☑		2			☐						select dct.dct_id , coalesce(dct_code, 'Document') || ': ' || to_char(dct_seq) || ' ' || coalesce(dct_commentaar, dct_bestand_naam_oorsprong) dct_omschrijving from bubs_documenten_v dct where dct.dct_ref_sleutel = :TAK_ID and dct.dct_ref_tabel = 'TAK' and dct.dct_afdrukbaar_vlag = 'Y' order by dct.dct_id
bubs_file_tak_pdf_rpt	{res:bubs_file_tak_pdf_rpt}	40	☑		3	:DCT_OMSCHRIJVING		☐				DCT_ID		

Function * Select Value
Sort Order *
Active ☑
Depth * 1
Description
Explanation

Report Definition

Code
URL Parameters

Document

Force Document as Attachment ☐
Document Number
Source
Source ID
Document as Parameters
Document as URL

Query

Source
Looping Query

The meaning of the entry fields is:

Function	The name of the report function.
Sort Order	A numeric value on which the subfunctions are sorted when they are shown in a list box in a screen.
Active	When checked, the subfunction will be activated.
Depth	The depth also plays a role in the contents of the loop.
Description	The description of the subfunction.
Code	The code used to refer to the report.
URL Parameters	The URL parameters such as ‘A=B&...&Y=Z’. The parameters are passed on to the sub-function when it is executed.
Document Number	Reference to a document number as registered in Documents 102. In a report, a document can be inserted or attached.
Looping Query	The SQL query used to generate the loop of the report. A loop is a sequence of instructions that are repeated for all rows in the query.

Profile Options

Enter text here.

Profile Options

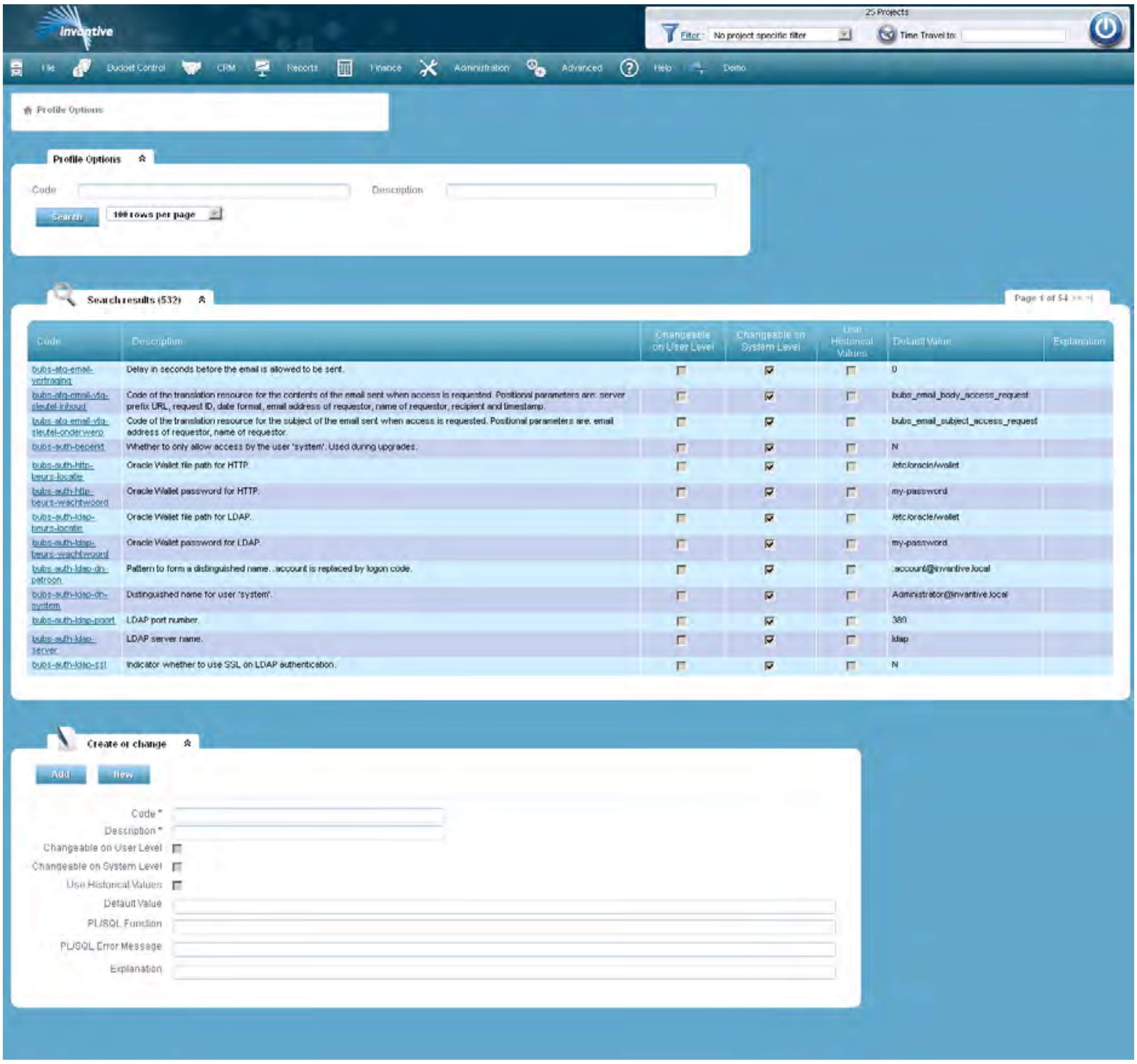
In this screen you can register and change profile options.

Profile option are properties ofInvantive Estate.which can be set.

Some examples:

- The profile option ‘Background color Invantive Estate’has the default color ‘Gray’’
- The profile option ‘Send application management email tosysadmin@invantive.com’;
- Using the profile option ‘1bubs-mnu-hoofdmenu-code’ you can indicate the starting point of the menu for each user of Invantive Estate. Default this is ‘Main’.

The values of profile options can be set withUser Profile Option Values 254 and User Profile Option Values 44.



Code	Description	Changeable on User Level	Changeable on System Level	Use Historical Values	Default Value	Explanation
bubs-atg-email-vertraging	Delay in seconds before the email is allowed to be sent.	☐	☑	☐	0	
bubs-atg-email-vtg-sleutel-inhoud	Code of the translation resource for the contents of the email sent when access is requested. Positional parameters are: server prefix URL, request ID, date format, email address of requestor, name of requestor, recipient and timestamp.	☐	☑	☐	bubs_email_body_access_request	
bubs-atg-email-vtg-sleutel-onderwerp	Code of the translation resource for the subject of the email sent when access is requested. Positional parameters are: email address of requestor, name of requestor.	☐	☑	☐	bubs_email_subject_access_request	
bubs-auth-beperkt	Whether to only allow access by the user 'system'. Used during upgrades.	☐	☑	☐	N	
bubs-auth-http-beurs-locatie	Oracle Wallet file path for HTTP.	☐	☑	☐	/etc/oracle/wallet	
bubs-auth-http-beurs-wachtwoord	Oracle Wallet password for HTTP.	☐	☑	☐	my-password	
bubs-auth-ldap-beurs-locatie	Oracle Wallet file path for LDAP.	☐	☑	☐	/etc/oracle/wallet	
bubs-auth-ldap-beurs-wachtwoord	Oracle Wallet password for LDAP.	☐	☑	☐	my-password	
bubs-auth-ldap-dn-patroon	Pattern to form a distinguished name. :account is replaced by logon code.	☐	☑	☐	:account@invantive.local	
bubs-auth-ldap-dn-system	Distinguished name for user 'system'.	☐	☑	☐	Administrator@invantive.local	
bubs-auth-ldap-poort	LDAP port number.	☐	☑	☐	389	
bubs-auth-ldap-server	LDAP server name.	☐	☑	☐	ldap	
bubs-auth-ldap-ssl	Indicator whether to use SSL on LDAP authentication.	☐	☑	☐	N	

Code *
Description *
Changeable on User Level ☐
Changeable on System Level ☐
Use Historical Values ☐
Default Value
PL/SQL Function
PL/SQL Error Message
Explanation

The meaning of the entry fields is:

Code	The code of the profile option.
Description	The description of the profile option.
Changeable for User Level	Indicates if the profile option can be changed at user level. To change profile options at user level see User Profile Option Values 44.
Changeable for System Level	Indicates if the profile option can be changed at user level. To change profile options at system level see Profile Option Values 254.
Use Historical Values	The historical values of this profile option will be used when time traveling is enabled, when checked. The current value will always be used if this indicator is not checked, even if time traveling is activated.
Default Value	The default value.
PL/SQL Function	The PL / SQL function of the profile option used to check new values. The outcome of the function can be 'true' or 'not true'. The function must have exactly one 'Oracle bind' variable and this variable will get the value of the current 'string'.
PL/SQL Error Message	The error message that will be generated as 'exception' when the outcome of PL/SQL function is 'not true'. This message will be translated with Translations 325.
Explanation	Possible explanation.

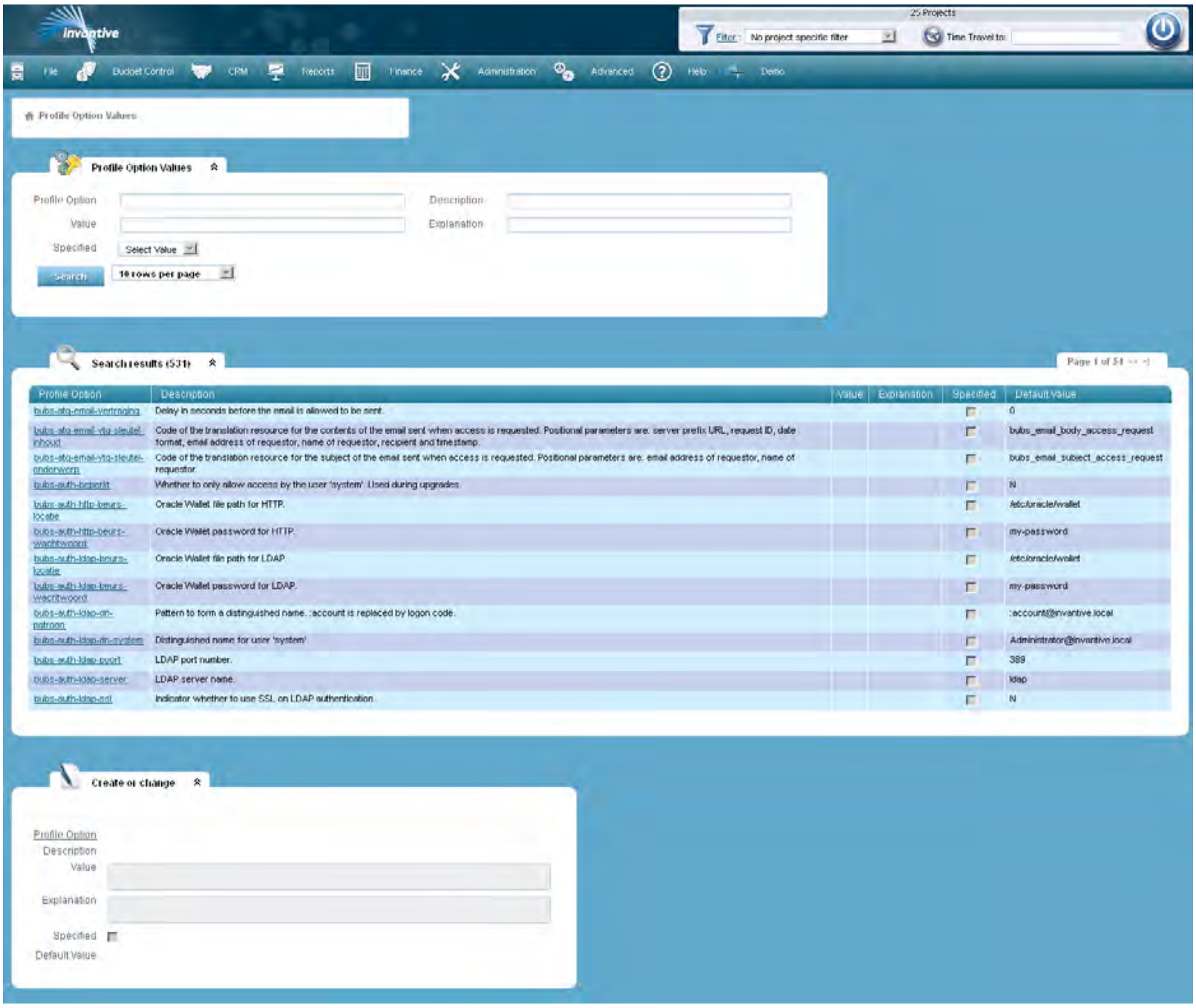
Profile Option Values

In this screen you can register, modify or delete profile option values.

Profile Option Values can be set system properties. In this screen profile options 253 you can indicate if for this specific profile option, it is allowed to enter a profile option value. If a profile option value is entered, the default value of the profile option does not change, but a 'adjustment record' is made. The value of the 'adjustment record' will have priority above the default profile option 253.

For example: the profile option 'Send application management mail to sysadmin@invantive.com' will be overruled at system level because the email address 'admin@acme.com' was entered as profile option value.

User Profile Option Values are closely related to Profile Options 253 and User Profile Option Values 44.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Profile Option Values
Profile Option Values
Profile Option
Description
Value
Explanation
Specified
Select Value
Search
10 rows per page
Search results (531)
Page 1 of 54
Create or change
Profile Option
Description
Value
Explanation
Specified
Default Value

Profile Option	Description	Value	Explanation	Specified	Default Value
bubs-afg-email-vertraging	Delay in seconds before the email is allowed to be sent.			☐	0
bubs-afg-email-vtg-sleutel-inhoud	Code of the translation resource for the contents of the email sent when access is requested. Positional parameters are: server prefix URL, request ID, date format, email address of requestor, name of requestor, recipient and timestamp.			☐	bubs_email_body_access_request
bubs-afg-email-vtg-sleutel-onderwerp	Code of the translation resource for the subject of the email sent when access is requested. Positional parameters are: email address of requestor, name of requestor.			☐	bubs_email_subject_access_request
bubs-auth-beperkt	Whether to only allow access by the user 'system'. Used during upgrades.			☐	N
bubs-auth-http-beurs-locatie	Oracle Wallet file path for HTTP.			☐	/etc/oracle/wallet
bubs-auth-http-beurs-wachtwoord	Oracle Wallet password for HTTP.			☐	my-password
bubs-auth-ldap-beurs-locatie	Oracle Wallet file path for LDAP.			☐	/etc/oracle/wallet
bubs-auth-ldap-beurs-wachtwoord	Oracle Wallet password for LDAP.			☐	my-password
bubs-auth-ldap-dn-patroon	Pattern to form a distinguished name. :account is replaced by logon code.			☐	:account@invantive.local
bubs-auth-ldap-dn-system	Distinguished name for user 'system'.			☐	Administrator@invantive.local
bubs-auth-ldap-poort	LDAP port number.			☐	389
bubs-auth-ldap-server	LDAP server name.			☐	ldap
bubs-auth-ldap-ssl	Indicator whether to use SSL on LDAP authentication.			☐	N

The meaning of the entry fields is:

Value	The profile option value that w ill be assigned to the profile option at system level.
Explanation	Explanation of the assigned profile option value.

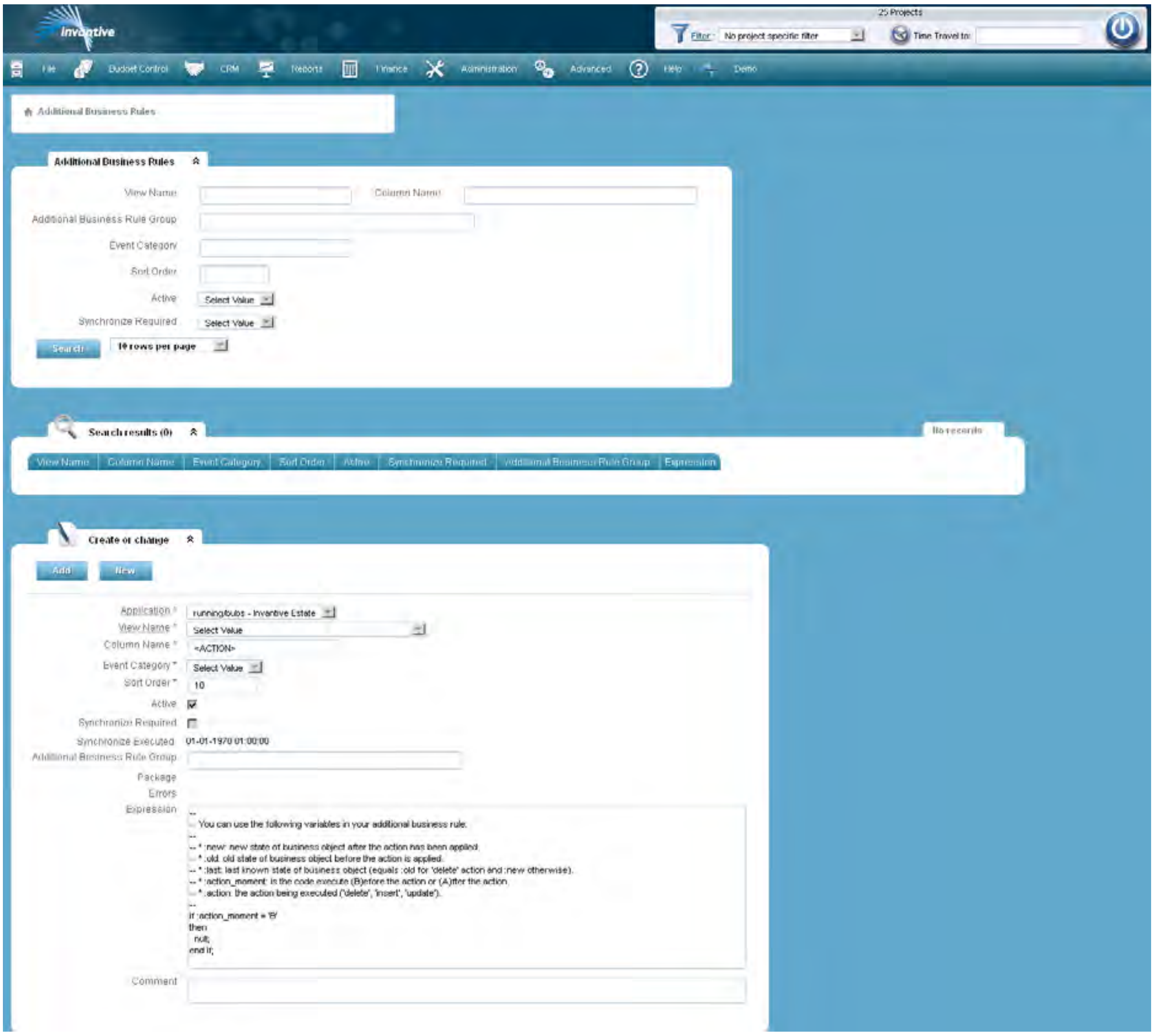
The meaning of the other fields:

Profile Option	The code of the profile option.
Description	The description of the profile option.
Specified	There is a other value specified than the default value w hen checked.
Default Value	Value used if no other value is specified.

Additional Business Rules

In this screen you can enter and change supplementary business rules.

Additional business rules are used for:
- to add additional checks like ‘no orders out of budget’.
- to perform actions like ‘send email’.
- provide fields with a default value.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Additional Business Rules
Additional Business Rules
View Name
Column Name
Additional Business Rule Group
Event Category
Sort Order
Active
Select Value
Synchronize Required
Select Value
Search
10 rows per page
Search results (0)
No records
View Name
Column Name
Event Category
Sort Order
Active
Synchronize Required
Additional Business Rule Group
Expression
Create or change
Add
New

Application * runningbubs - Invantive Estate
View Name * Select Value
Column Name * <ACTION>
Event Category * Select Value
Sort Order * 10
Active ☑
Synchronize Required ☐
Synchronize Executed 01-01-1970 01:00:00
Additional Business Rule Group
Package
Errors
Expression

```
--
-- You can use the following variables in your additional business rule:
--
-- * :new: new state of business object after the action has been applied.
-- * :old: old state of business object before the action is applied.
-- * :last: last known state of business object (equals :old for 'delete' action and :new otherwise).
-- * :action_moment: is the code execute (B)efore the action or (A)fter the action.
-- * :action: the action being executed ('delete', 'insert', 'update').
--
if :action_moment = 'B'
then
  null;
end if;
```

Comment

The meaning of the entry fields is:

Application	The name of the application to which the additional business rule applies.
View	Name of the view to which the additional business rule applies.
Column Name	The name of the column to which the additional business rule applies.
Event Category	Indicates the type of event that starts the additional business rule. Enter for standard filled in values, in all other cases always ‘<Action>’.
Sort Order	A numeric value used for sorting the additional business rule when they are shown in a list box in a screen.
Active	Indicates if the additional business rule is active.
Synchronization Required	The ‘Package’ needs to be recalculated if an additional business rule is changed in case this indicator is checked. The recalculation of the ‘Package’ takes place via Background Jobs 220.
Synchronization Executed	The date on which the last synchronization was performed to this additional business rule.
Group	The group of the additional business rule. Groups help to organize additional business rules

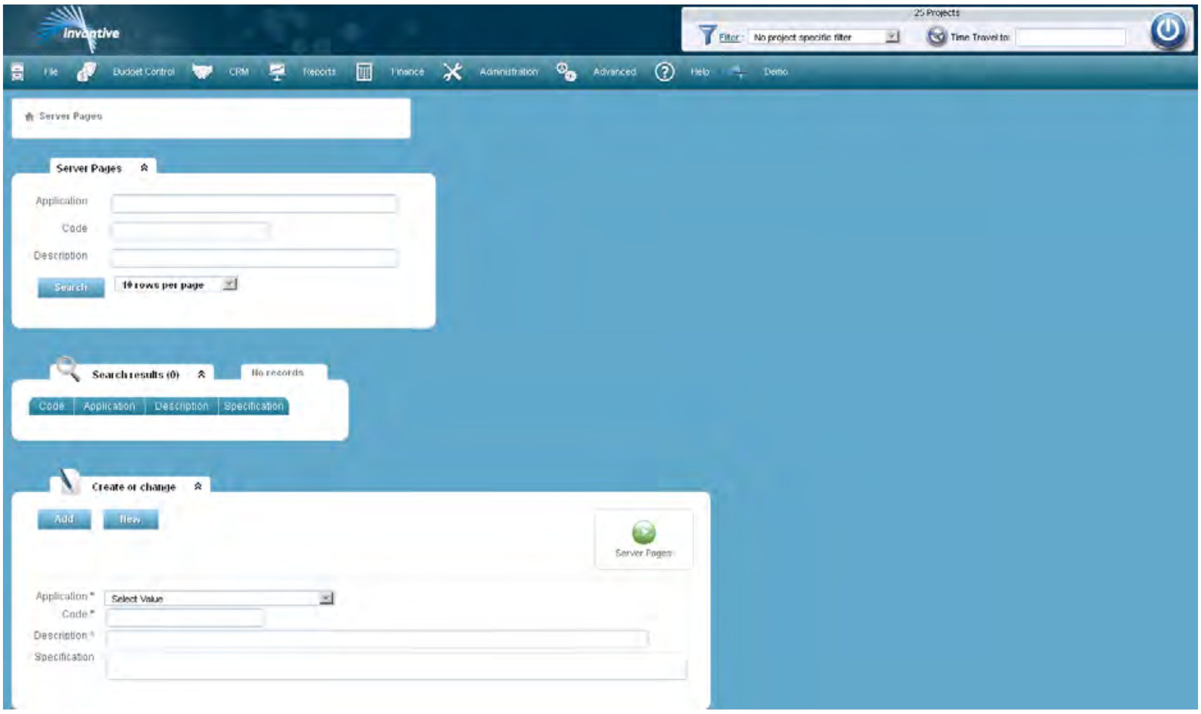
	to business processes or other formats.
Expression	SQL expression to determine the values in the column (if the column is filled) and in other cases a SQL/PL code block (if column is ‘<Action>’). You can use the following references in a PL/SQL code block: :action: the SQL statement which executes the company rule; 'INSERT', 'UPDATE' or 'DELETE'. :action_moment: the moment when the additional business rule is executed, for ('B') or after ('A') the updating of the company object. :last: the last added value of the business object (when deleting, the situation before deleting, in all other cases equal to :new). :old: the previous value of the business object. :new : the new value of the business object.
Comments	Notes to the additional business rule.

The meaning of the other fields:

Package	The name of the ‘package’ which includes the additional business rule.
Errors	Possible errors in the ‘Package’.

Server Pages

In this screen you can enter, modify or delete server pages.


Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Server Pages
Server Pages
Application
Code
Description
Search
10 rows per page
Search results (0)
No records
Code
Application
Description
Specification
Create or change
Add
New
Server Pages
Application *
Select Value
Code *
Description *
Specification

The meaning of the entry fields is:

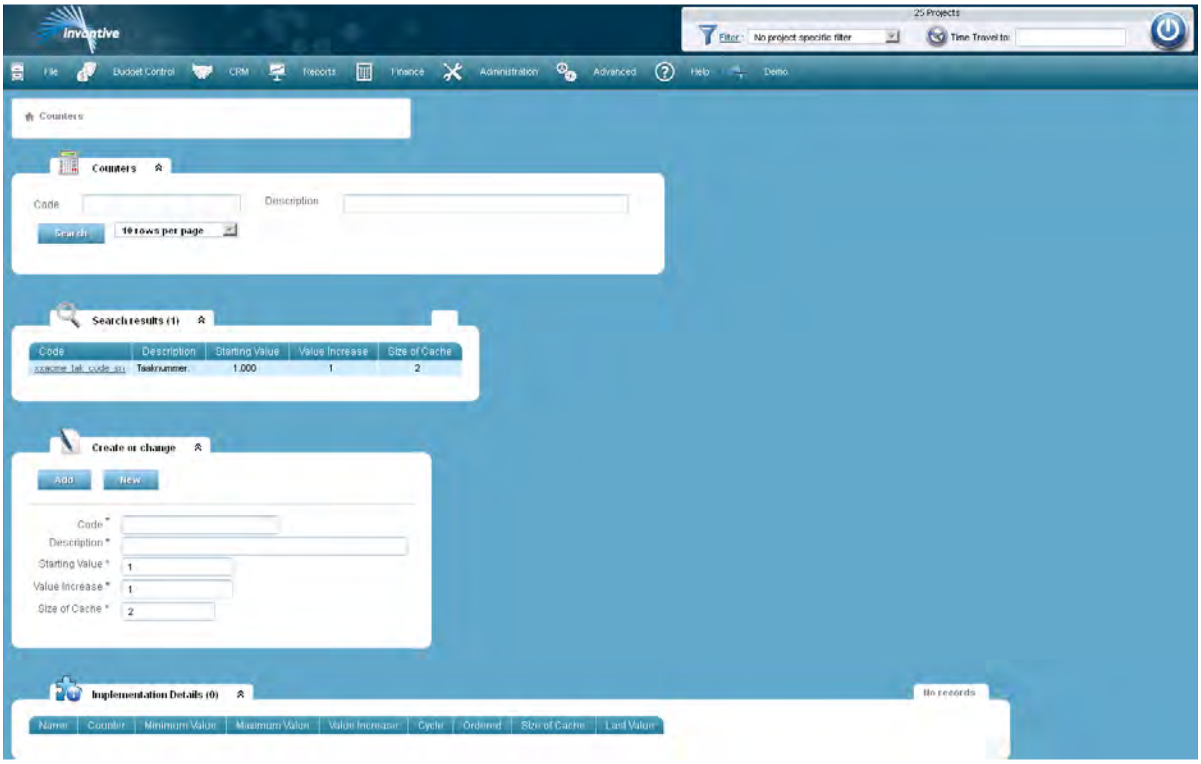
Application	The name of the application to which the server page applies.
Code	
Description	
Constraint Specification	

Counters

In this form you can register and change counters.

A counter can be used in additional business rules to calculate a sequence number. See Additional Business Rules 256.

The software creates for each counter a ‘database sequence’. The name of the ‘database sequence' is equal to the code of the counter. The next value of the counter can be requested in a calculated field as '<CODE>.nextval'.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Counters
Counters
Code
Description
Search
10 rows per page
Search results (1)
Create or change
Add
New
Implementation Details (0)
No records
Name
Counter
Minimum Value
Maximum Value
Value Increase
Cycle
Ordered
Size of Cache
Last Value

Code	Description	Starting Value	Value Increase	Size of Cache
xxacme_tak_code_sq	Taaknummer.	1.000	1	2

Code *	
Description *	
Starting Value *	1
Value Increase *	1
Size of Cache *	2

The meaning of the entry fields is:

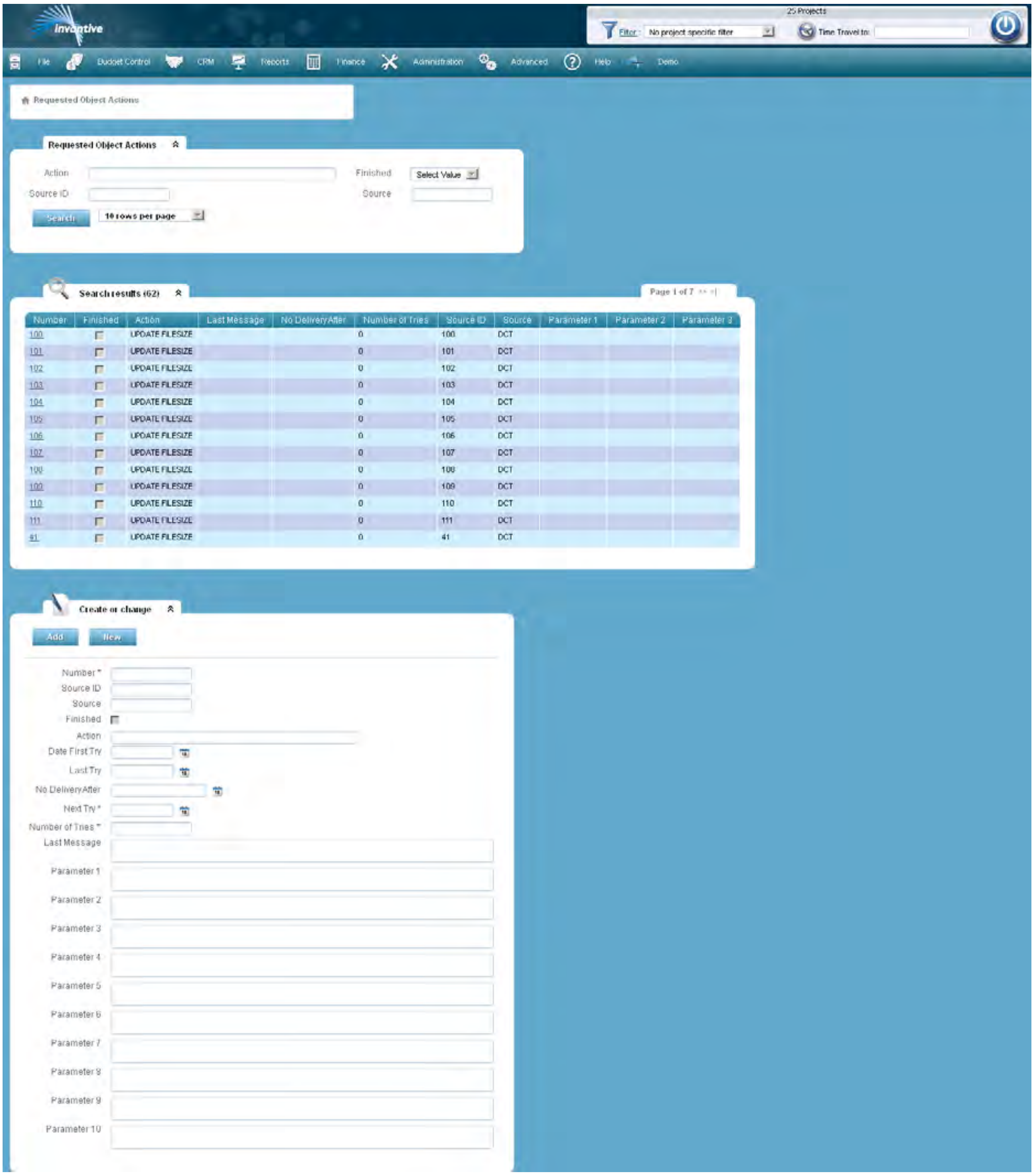
Code	The unique code of the counter.
Description	The description of the counter.
Starting Value	The initial value of the counter.
Value Increase	With every increase, the counter is increased with this value.
Size of Cache	The size of the cache of 'Counters' is made adjustable to avoid any major holes in successive 'counters'.

The meaning of the other fields:

Name	The name of the 'counter'.
Counter	The code of the 'counter'.
Minimum	The minimum value of the counter.
Maximum	The maximum value of the counter.
Cycle	The counter gets the first value again after exceeding the maximum value.
Ordered	Indicates if the value of the counter is sorted.
Size of Cache	The size of the cache memory.
Last Value	The last value of the counter.

Requested Object Actions

In this form you can register and change counters.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Requested Object Actions
Requested Object Actions
Action
Finished
Select Value
Source ID
Source
Search
10 rows per page
Search results (62)
Page 1 of 7
Create or change
Add
New
Number *
Source ID
Source
Finished
Action
Date First Try
Last Try
No Delivery After
Next Try *
Number of Tries *
Last Message
Parameter 1
Parameter 2
Parameter 3
Parameter 4
Parameter 5
Parameter 6
Parameter 7
Parameter 8
Parameter 9
Parameter 10

Number	Finished	Action	Last Message	No Delivery After	Number of Tries	Source ID	Source	Parameter 1	Parameter 2	Parameter 3
100	☐	UPDATE FILESIZE			0	100	DCT			
101	☐	UPDATE FILESIZE			0	101	DCT			
102	☐	UPDATE FILESIZE			0	102	DCT			
103	☐	UPDATE FILESIZE			0	103	DCT			
104	☐	UPDATE FILESIZE			0	104	DCT			
105	☐	UPDATE FILESIZE			0	105	DCT			
106	☐	UPDATE FILESIZE			0	106	DCT			
107	☐	UPDATE FILESIZE			0	107	DCT			
108	☐	UPDATE FILESIZE			0	108	DCT			
109	☐	UPDATE FILESIZE			0	109	DCT			
110	☐	UPDATE FILESIZE			0	110	DCT			
111	☐	UPDATE FILESIZE			0	111	DCT			
41	☐	UPDATE FILESIZE			0	41	DCT			

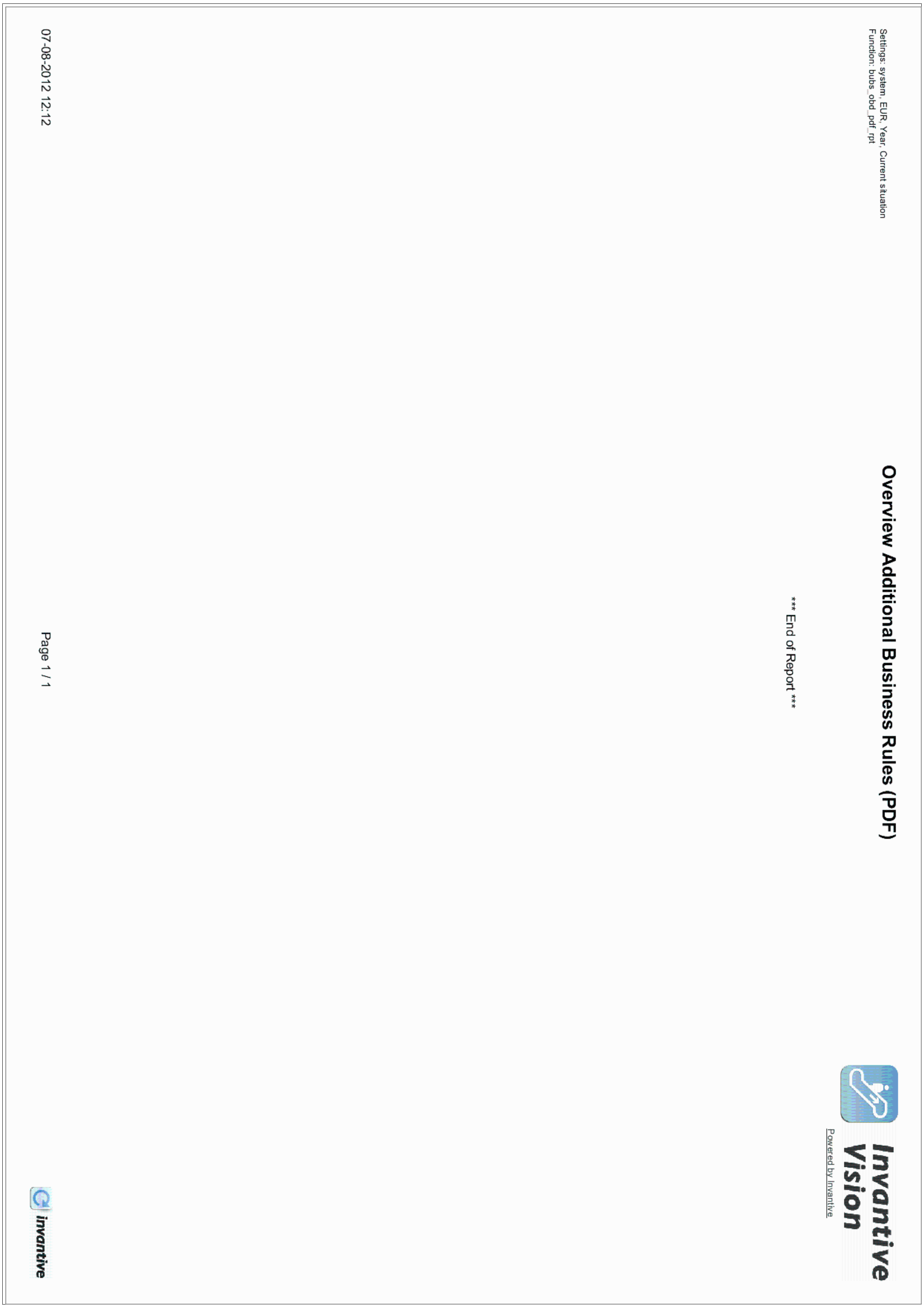
The meaning of the entry fields is:

Number	Unique numeric code.
Source ID	Identification of the object.
Parent	The table code in which the object is included.
Finished	Indicator showing whether the action has been executed.
Action	An action that needs to be executed.
Date First Try	The date when the first attempt to execute the action was.
Last Try	The date when the last attempt to execute the action was.
Do not Deliver after	The system time when the requested action was cancelled and execution will no longer be attempted.
Next Try	The date when the next attempt will be made to execute the action. No date will be displayed here if the action has already been executed.
Number of Tries	The number of attempts that will be made to execute the action.

Last Message	The message that was displayed during the last attempt to execute the action.
Parameter 1	The first parameter.

Overview Additional Business Rules (PDF)

This report shows the text of the in Invantive Estate registered additional business rules 256.



Invantive Vision
Powered by Invantive

Overview Additional Business Rules (PDF)

Settings: system, EUR, Year, Current situation
Function: bubs_obd_pdf_rpt

*** End of Report ***

07-08-2012 12:12

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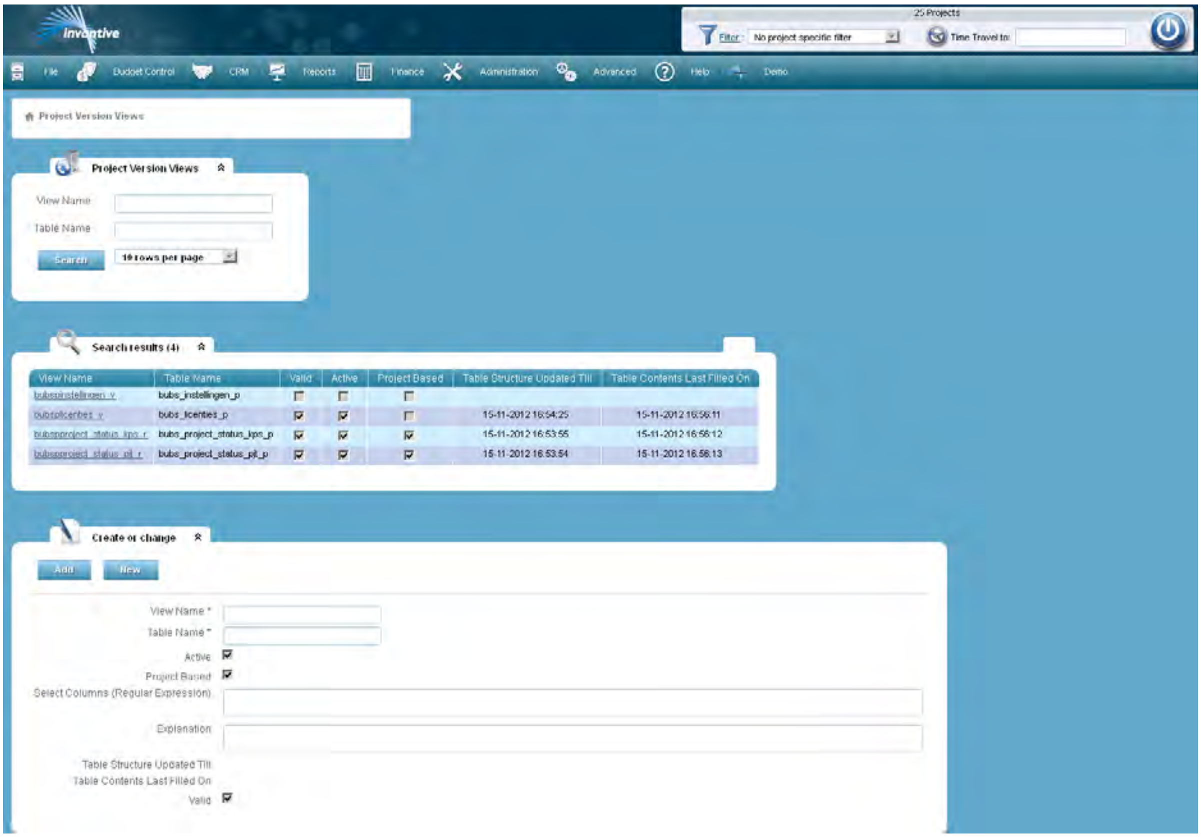
invantive

Project Version Views

In this screen you can register project version views. If a project version 53 is registered, then the data from these views will be saved in the specified tables at the historical point in time for this project version.

Project version views generate ‘replicas’ or ‘cubes’ in table format.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Project Version Views
Project Version Views
View Name
Table Name
Search
10 rows per page
Search results (4)
Create or change
Add
New

View Name	Table Name	Valid	Active	Project Based	Table Structure Updated Till	Table Contents Last Filled On
bubspinstellingen_v	bubs_instellingen_p	☐	☐	☐		
bubsplicenties_v	bubs_licenties_p	☑	☑	☐	15-11-2012 16:54:25	15-11-2012 16:56:11
bubspproject_status_kpis_r	bubs_project_status_kpis_p	☑	☑	☑	15-11-2012 16:53:55	15-11-2012 16:56:12
bubspproject_status_pjt_r	bubs_project_status_pjt_p	☑	☑	☑	15-11-2012 16:53:54	15-11-2012 16:56:13

View Name *

Table Name *

Active ☑

Project Based ☑

Select Columns (Regular Expression)

Explanation

Table Structure Updated Till

Table Contents Last Filled On

Valid ☑

The meaning of the entry fields is:

View Name	The name of the view. The name of the view should always begin with ‘bubsp’, for example ‘bubspproject_status_pjt_r’. If the view name begins with ‘bubs_’ then the view doesn't support time travelling and the contents of the table undetermined.
Table Name	Name of the table where the data is stored. It's preferred that the table name ends on ‘_p’, for example ‘bubsproject_status_pjt_p’.
Active	The project version view is active if it is checked.
Project Based	The view contains project data and only the project data for project version will be updated when checked. The view will contain all data when unchecked.
Select Columns	A voluntary selection of columns from the view as a regular expression. If nothing is entered, all columns will be selected.
Explanation	Possible explanation about the use of the view.

The meaning of the other fields:

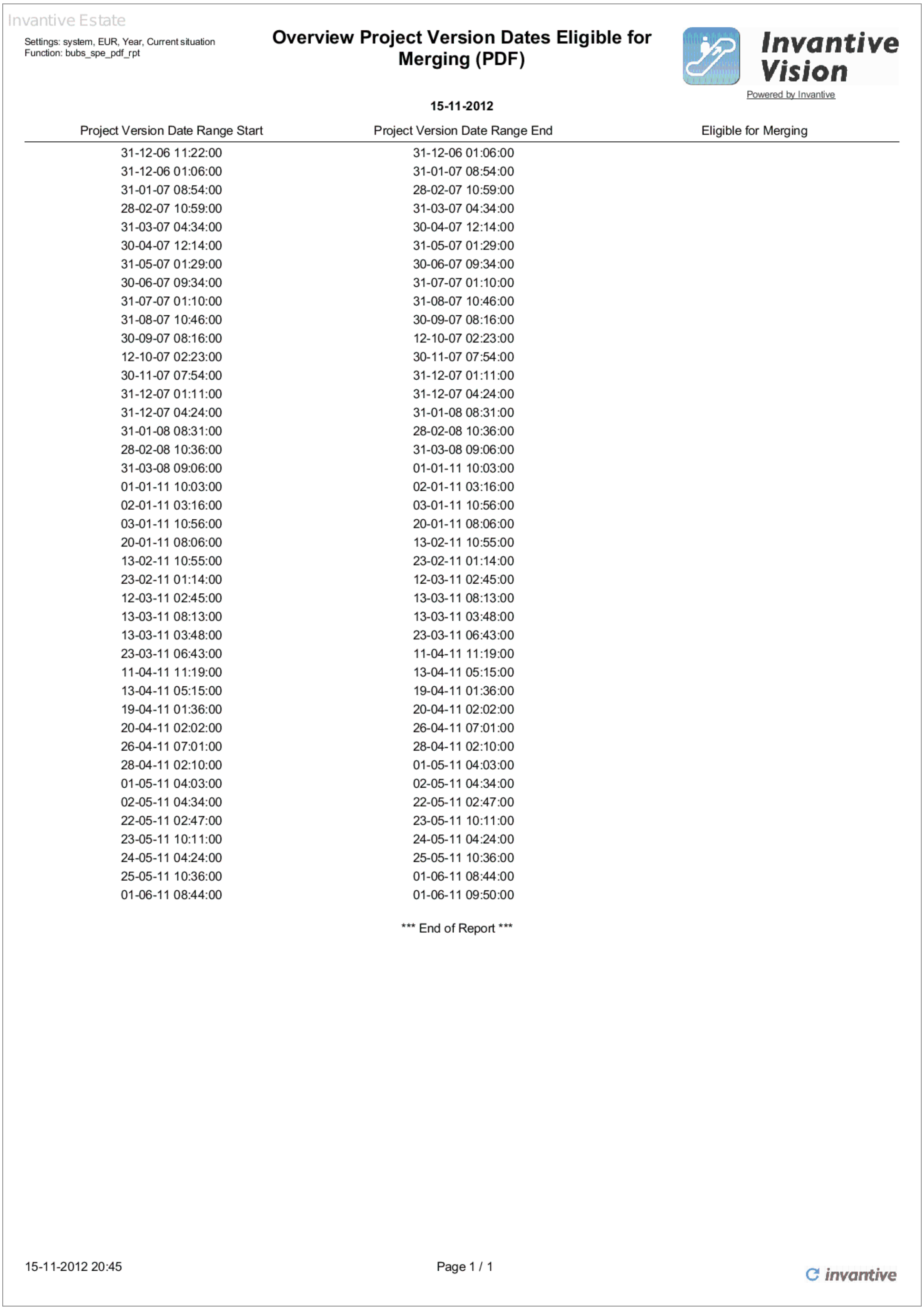
Table Structure Updated Till	The date is calculated by the system when the project version view becomes active.
Table Contents Last Filled On	The date is calculated by the system when the project version view becomes active.
Valid	Is checked when the system didn't find any changes in the view and recalculation is unnecessary.

Note: If the project version views change, the underlying tables will only be filled or rebuilt when necessary and when the changed project version view remains active. In this way you can deactivate the project version views and subsequently modify them without that the application will try to recalculate everything.

Overview Project Version Dates Eligible for Merging

This report shows a list of project versions in time and indicates which project versions can be merged to the same time because in the meantime there have been no relevant modifications.

By merging project versions (see also Project_Versions 53) to the same point in time, the performances of calculating the project version views are merged (see also Project Version Views 261). The reduction of the number of snapshots with factor two results in an equal reduction of necessary computation time.



Invantive Estate

Settings: system, EUR, Year, Current situation
Function: bubs_spe_pdf_rpt

Overview Project Version Dates Eligible for Merging (PDF)

Invantive Vision
Powered by Invantive

15-11-2012

Project Version Date Range Start	Project Version Date Range End	Eligible for Merging
31-12-06 11:22:00	31-12-06 01:06:00	
31-12-06 01:06:00	31-01-07 08:54:00	
31-01-07 08:54:00	28-02-07 10:59:00	
28-02-07 10:59:00	31-03-07 04:34:00	
31-03-07 04:34:00	30-04-07 12:14:00	
30-04-07 12:14:00	31-05-07 01:29:00	
31-05-07 01:29:00	30-06-07 09:34:00	
30-06-07 09:34:00	31-07-07 01:10:00	
31-07-07 01:10:00	31-08-07 10:46:00	
31-08-07 10:46:00	30-09-07 08:16:00	
30-09-07 08:16:00	12-10-07 02:23:00	
12-10-07 02:23:00	30-11-07 07:54:00	
30-11-07 07:54:00	31-12-07 01:11:00	
31-12-07 01:11:00	31-12-07 04:24:00	
31-12-07 04:24:00	31-01-08 08:31:00	
31-01-08 08:31:00	28-02-08 10:36:00	
28-02-08 10:36:00	31-03-08 09:06:00	
31-03-08 09:06:00	01-01-11 10:03:00	
01-01-11 10:03:00	02-01-11 03:16:00	
02-01-11 03:16:00	03-01-11 10:56:00	
03-01-11 10:56:00	20-01-11 08:06:00	
20-01-11 08:06:00	13-02-11 10:55:00	
13-02-11 10:55:00	23-02-11 01:14:00	
23-02-11 01:14:00	12-03-11 02:45:00	
12-03-11 02:45:00	13-03-11 08:13:00	
13-03-11 08:13:00	13-03-11 03:48:00	
13-03-11 03:48:00	23-03-11 06:43:00	
23-03-11 06:43:00	11-04-11 11:19:00	
11-04-11 11:19:00	13-04-11 05:15:00	
13-04-11 05:15:00	19-04-11 01:36:00	
19-04-11 01:36:00	20-04-11 02:02:00	
20-04-11 02:02:00	26-04-11 07:01:00	
26-04-11 07:01:00	28-04-11 02:10:00	
28-04-11 02:10:00	01-05-11 04:03:00	
01-05-11 04:03:00	02-05-11 04:34:00	
02-05-11 04:34:00	22-05-11 02:47:00	
22-05-11 02:47:00	23-05-11 10:11:00	
23-05-11 10:11:00	24-05-11 04:24:00	
24-05-11 04:24:00	25-05-11 10:36:00	
25-05-11 10:36:00	01-06-11 08:44:00	
01-06-11 08:44:00	01-06-11 09:50:00	

*** End of Report ***

15-11-2012 20:45

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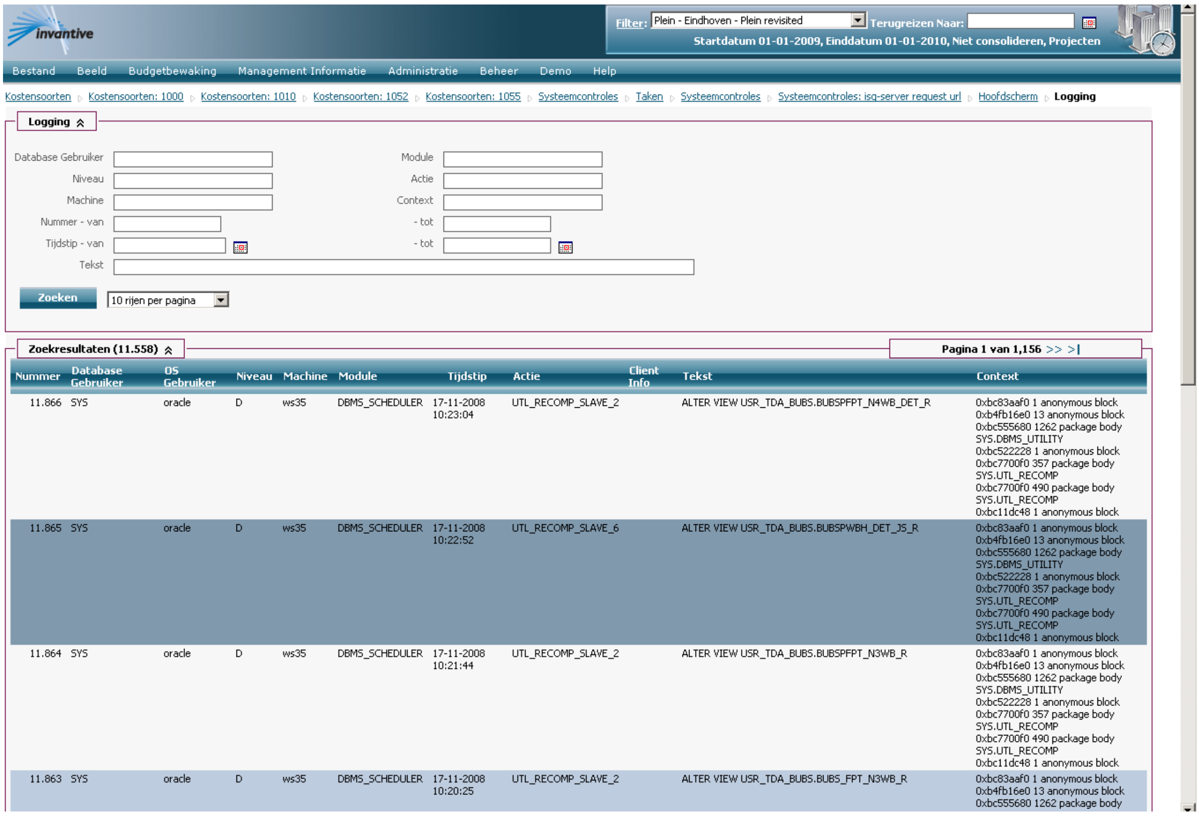
invantive

Logging

In Invantive Estate error messages and system events are logged.

For example, you can see all the database errors, including those of the other users on the system.


invantive
Bestand
Beeld
Budgetbewaking
Management Informatie
Administratie
Beheer
Demo
Help
Kostensoorten ▷ Kostensoorten: 1000 ▷ Kostensoorten: 1010 ▷ Kostensoorten: 1052 ▷ Kostensoorten: 1055 ▷ Systeemcontroles ▷ Taken ▷ Systeemcontroles ▷ Systeemcontroles: isq-server request url ▷ Hoofdscherm ▷ Logging
Logging
Database Gebruiker
Niveau
Machine
Nummer - van
Tijdstip - van
Tekst
Module
Actie
Context
- tot
- tot
Zoeken
Zoekresultaten (11.558)
Pagina 1 van 1,156 >> >|

Filter: Plein - Eindhoven - Plein revisited
Terugreizen Naar:
Startdatum 01-01-2009, Einddatum 01-01-2010, Niet consolideren, Projecten

10 rijen per pagina

Nummer	Database Gebruiker	OS Gebruiker	Niveau	Machine	Module	Tijdstip	Actie	Client Info	Tekst	Context
11.866	SYS	oracle	D	ws35	DBMS_SCHEDULER	17-11-2008 10:23:04	UTL_RECOMP_SLAVE_2		ALTER VIEW USR_TDA_BUBS.BUBSPFPT_N4WB_DET_R	0xbc83aaf0 1 anonymous block 0xb4fb16e0 13 anonymous block 0xbc555680 1262 package body SYS.DBMS_UTILITY 0xbc522228 1 anonymous block 0xbc7700f0 357 package body SYS.UTL_RECOMP 0xbc7700f0 490 package body SYS.UTL_RECOMP 0xbc11dc48 1 anonymous block
11.865	SYS	oracle	D	ws35	DBMS_SCHEDULER	17-11-2008 10:22:52	UTL_RECOMP_SLAVE_6		ALTER VIEW USR_TDA_BUBS.BUBSPWBH_DET_JS_R	0xbc83aaf0 1 anonymous block 0xb4fb16e0 13 anonymous block 0xbc555680 1262 package body SYS.DBMS_UTILITY 0xbc522228 1 anonymous block 0xbc7700f0 357 package body SYS.UTL_RECOMP 0xbc7700f0 490 package body SYS.UTL_RECOMP 0xbc11dc48 1 anonymous block
11.864	SYS	oracle	D	ws35	DBMS_SCHEDULER	17-11-2008 10:21:44	UTL_RECOMP_SLAVE_2		ALTER VIEW USR_TDA_BUBS.BUBSPFPT_N3WB_R	0xbc83aaf0 1 anonymous block 0xb4fb16e0 13 anonymous block 0xbc555680 1262 package body SYS.DBMS_UTILITY 0xbc522228 1 anonymous block 0xbc7700f0 357 package body SYS.UTL_RECOMP 0xbc7700f0 490 package body SYS.UTL_RECOMP 0xbc11dc48 1 anonymous block
11.863	SYS	oracle	D	ws35	DBMS_SCHEDULER	17-11-2008 10:20:25	UTL_RECOMP_SLAVE_2		ALTER VIEW USR_TDA_BUBS.BUBS_FPT_N3WB_R	0xbc83aaf0 1 anonymous block 0xb4fb16e0 13 anonymous block 0xbc555680 1262 package body

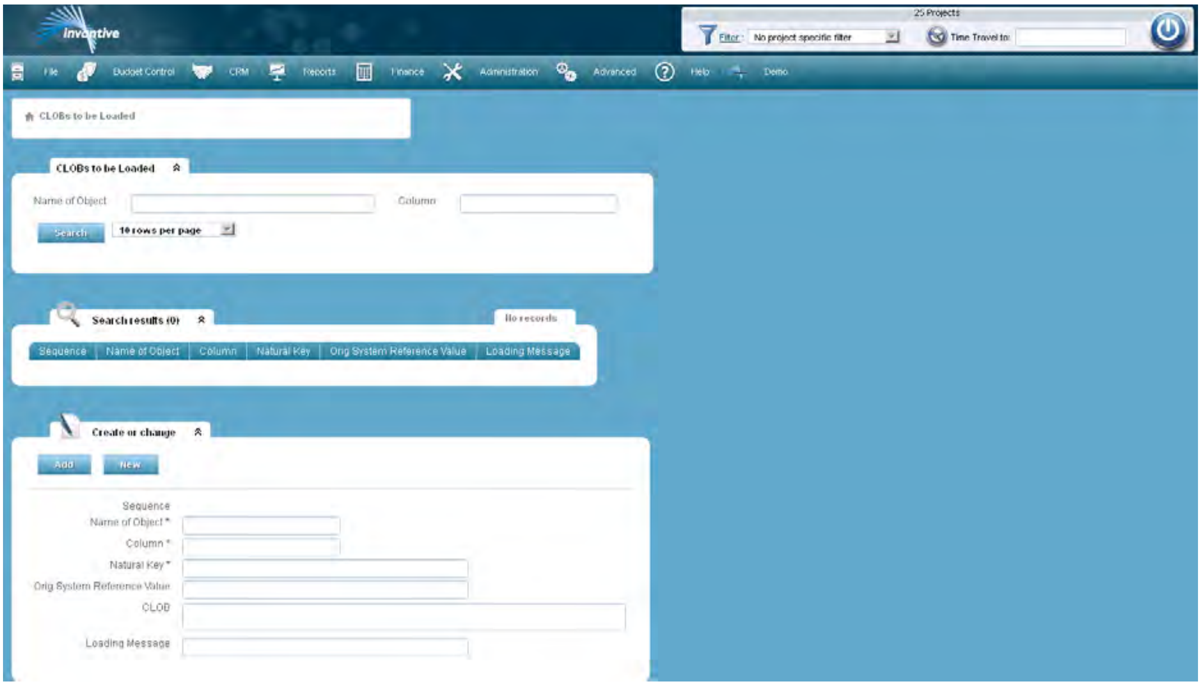
The meaning of the entry fields is:

Database User	The unique code with which the database user is identified.
Module	Name of the installed module which was called by the user.
Level	The level at which the action is performed.
Action	The executed action, for example 'INSERT' or 'COMPILE'.
Machine	The name of the server used to get access to Invantive Estate.
Context	The context in which the SQL code was executed ('call stack').
Number	The unique number assigned to the logged message.
Time	The date and time on which the logging of the log message took place.
Text	The SQL statement that was executed.
OS User	The name of the account on the operating system that was used.
Client Info	Information of the client.

CLOBs to be Loaded

Via this screen you can load the 'CLOBs' in the database of Invantive Estate with SQL loader.

A CLOB (Character Large Object) is a - potentially large - data element in a database that consists of characters to which a character encoding in the database is connected (as opposed to 'BLOB'). It means that data stored in a CLOB with a specific character encoding will also be returned by the database using this character encoding.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
CLOBs to be Loaded
CLOBs to be Loaded
Name of Object
Column
Search
10 rows per page
Search results (0)
No records
Sequence
Name of Object
Column
Natural Key
Orig System Reference Value
Loading Message
Create or change
Add
New
Sequence
Name of Object *
Column *
Natural Key *
Orig System Reference Value
CLOB
Loading Message

The meaning of the entry fields is:

Name of Object	The table in which the CLOBs are stored.
Column	The column in which the CLOBs are stored.
Natural Key	The natural key of the row in which the CLOB is stored.
Original System Reference Value	The reference value of CLOB in the system of origin.
CLOB	The CLOB which is stored.
Loading Message	Result of the last attempt to load CLOB in the database.

The meaning of the other fields:

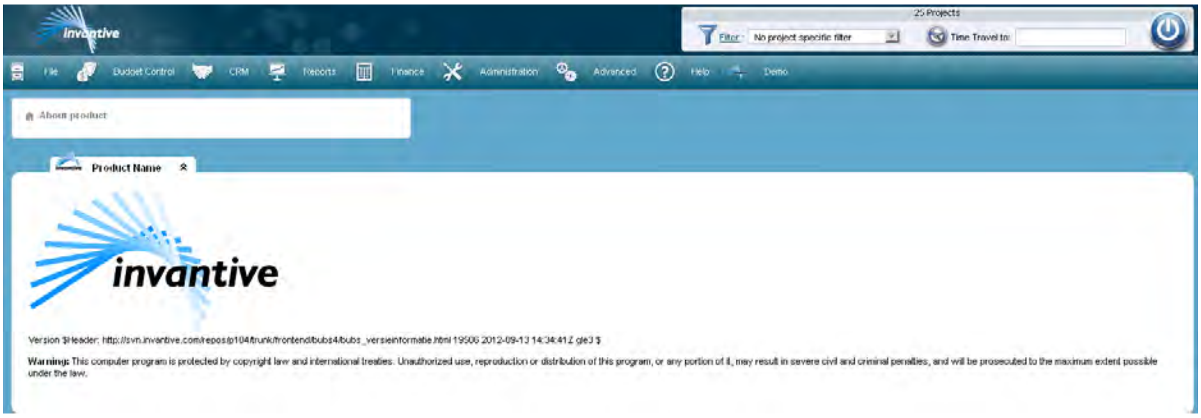
Sequence	The sequence number of the CLOB.

Version History

This screen provides information about different versions of Invantive Estate that were installed during the course of time.

A version is a modification of the software or a new delivery of the configuration settings.

Versions cannot be changed or removed. The registration of a version is done by the software of Invantive.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
About product
Product Name
invantive

Version $Header: http://svn.invantive.com/repos/p104/trunk/frontend/bubs4/bubs_versieinformatie.html 19506 2012-09-13 14:34:41Z gle3 $

Warning: This computer program is protected by copyright law and international treaties. Unauthorized use, reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.

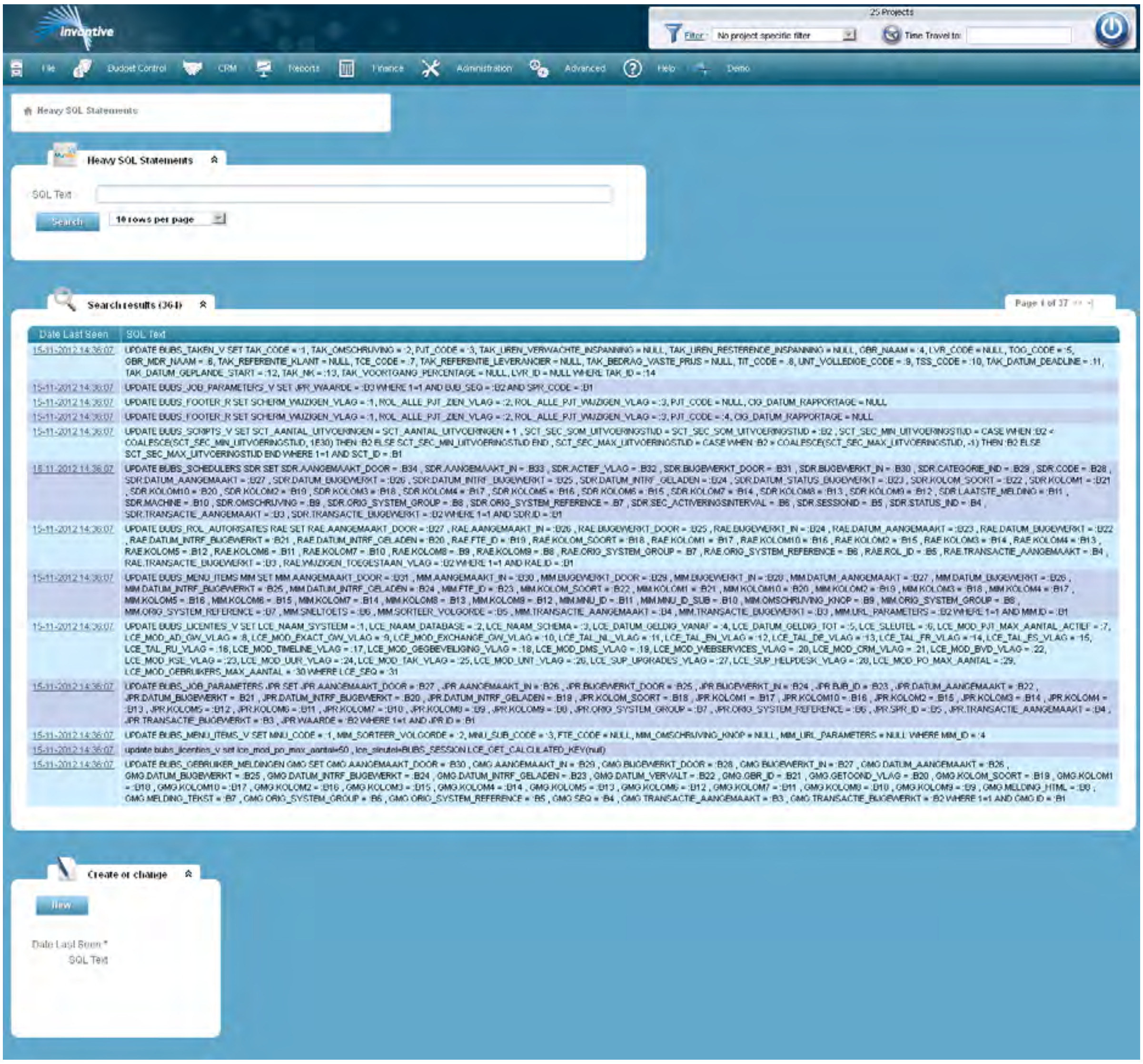
The meaning of the entry fields is:

Version ID	The ID number of the installation.
Version	The version number under which this version is known at the supplier.
Module	The module that has been replaced. This is 'All' if large parts of the application are replaced.
Installation Date	The moment at which the installation was finished.
Comments	Possible remarks on the installation of the software.
Object Versions	The version info from the database objects (packages, procedures).
Database Context	The variables that define the database context. These variables are, for example, used for debugging of time traveling over project versions.
Database NLS Parameters	Database NLS parameters determine the local behavior in the database runtime environment on the client and the server. Using NLS you can select a specific language and to store the data using a specific character set. NLS is part of the overall support provided by the database and it allows for developing multilingual applications and software that can be accessed and performed simultaneously from all parts of the world.
Database Parameters	Database parameters are used to initialize and configure the database.
Other Database Parameters	Settings that are not in the database configuration file can be realized using other database parameters.
Environment Variables	A set of variables that define the environment in which the software is executed on the web server.
Java System Variables	The Java system variables on the web server.

Heavy SQL Statements

This screen allows you to retrieve information about heavy SQL statements.

These SQL statements take a lot of the processor capacity of the database server during the 'parse' phase. With a background script '...' they can be prepared in the morning which allows the system to warm up more quick.



10 rows per page

Date Last Seen	SQL Text
15-11-2012 14:36:07	UPDATE BUBS_TAKEN_V SET TAK_CODE = :1, TAK_OMSCHRIJVING = :2, PJT_CODE = :3, TAK_UREN_VERWACHTE_INSPANNING = NULL, TAK_UREN_RESTERENDE_INSPANNING = NULL, GBR_NAAM = :4, LVR_CODE = NULL, TOG_CODE = :5, GBR_MDR_NAAM = :6, TAK_REFERENTIE_KLANT = NULL, TCE_CODE = :7, TAK_REFERENTIE_LEVERANCIER = NULL, TAK_BEDRAG_VASTE_PRIJS = NULL, TIT_CODE = :8, UNT_VOLLEDIGE_CODE = :9, TSS_CODE = :10, TAK_DATUM_DEADLINE = :11, TAK_DATUM_GEPLANDE_START = :12, TAK_NK = :13, TAK_VOORTGANG_PERCENTAGE = NULL, LVR_ID = NULL WHERE TAK_ID = :14
15-11-2012 14:36:07	UPDATE BUBS_JOB_PARAMETERS_V SET JPR_WAARDE = :B3 WHERE 1=1 AND BJB_SEQ = :B2 AND SPR_CODE = :B1
15-11-2012 14:36:07	UPDATE BUBS_FOOTER_R SET SCHERM_WIJZIGEN_VLAG = :1, ROL_ALLE_PJT_ZIEN_VLAG = :2, ROL_ALLE_PJT_WIJZIGEN_VLAG = :3, PJT_CODE = NULL, CIG_DATUM_RAPPORTAGE = NULL
15-11-2012 14:36:07	UPDATE BUBS_FOOTER_R SET SCHERM_WIJZIGEN_VLAG = :1, ROL_ALLE_PJT_ZIEN_VLAG = :2, ROL_ALLE_PJT_WIJZIGEN_VLAG = :3, PJT_CODE = :4, CIG_DATUM_RAPPORTAGE = NULL
15-11-2012 14:36:07	UPDATE BUBS_SCRIPTS_V SET SCT_AANTAL_UITVOERINGEN = SCT_AANTAL_UITVOERINGEN + 1 , SCT_SEC_SOM_UITVOERINGSTIJD = SCT_SEC_SOM_UITVOERINGSTIJD + :B2 , SCT_SEC_MIN_UITVOERINGSTIJD = CASE WHEN :B2 < COALESCE(SCT_SEC_MIN_UITVOERINGSTIJD, 1E30) THEN :B2 ELSE SCT_SEC_MIN_UITVOERINGSTIJD END , SCT_SEC_MAX_UITVOERINGSTIJD = CASE WHEN :B2 > COALESCE(SCT_SEC_MAX_UITVOERINGSTIJD, -1) THEN :B2 ELSE SCT_SEC_MAX_UITVOERINGSTIJD END WHERE 1=1 AND SCT_ID = :B1
15-11-2012 14:36:07	UPDATE BUBS_SCHEDULERS SDR SET SDR.AANGEMAAKT_DOOR = :B34 , SDR.AANGEMAAKT_IN = :B33 , SDR.ACTIEF_VLAG = :B32 , SDR.BIJGEWERKT_DOOR = :B31 , SDR.BIJGEWERKT_IN = :B30 , SDR.CATEGORIE_IND = :B29 , SDR.CODE = :B28 , SDR.DATUM_AANGEMAAKT = :B27 , SDR.DATUM_BIJGEWERKT = :B26 , SDR.DATUM_INTRF_BIJGEWERKT = :B25 , SDR.DATUM_INTRF_GELADEN = :B24 , SDR.DATUM_STATUS_BIJGEWERKT = :B23 , SDR.KOLOM_SOORT = :B22 , SDR.KOLOM1 = :B21 , SDR.KOLOM10 = :B20 , SDR.KOLOM2 = :B19 , SDR.KOLOM3 = :B18 , SDR.KOLOM4 = :B17 , SDR.KOLOM5 = :B16 , SDR.KOLOM6 = :B15 , SDR.KOLOM7 = :B14 , SDR.KOLOM8 = :B13 , SDR.KOLOM9 = :B12 , SDR.LAATSTE_MELDING = :B11 , SDR.MACHINE = :B10 , SDR.OMSCHRIJVING = :B9 , SDR.ORIG_SYSTEM_GROUP = :B8 , SDR.ORIG_SYSTEM_REFERENCE = :B7 , SDR.SEC_ACTIVERINGSINTERVAL = :B6 , SDR.SESSIONID = :B5 , SDR.STATUS_IND = :B4 , SDR.TRANSACTIE_AANGEMAAKT = :B3 , SDR.TRANSACTIE_BIJGEWERKT = :B2 WHERE 1=1 AND SDR.ID = :B1
15-11-2012 14:36:07	UPDATE BUBS_ROL_AUTORISATIES RAE SET RAE.AANGEMAAKT_DOOR = :B27 , RAE.AANGEMAAKT_IN = :B26 , RAE.BIJGEWERKT_DOOR = :B25 , RAE.BIJGEWERKT_IN = :B24 , RAE.DATUM_AANGEMAAKT = :B23 , RAE.DATUM_BIJGEWERKT = :B22 , RAE.DATUM_INTRF_BIJGEWERKT = :B21 , RAE.DATUM_INTRF_GELADEN = :B20 , RAE.FTE_ID = :B19 , RAE.KOLOM_SOORT = :B18 , RAE.KOLOM1 = :B17 , RAE.KOLOM10 = :B16 , RAE.KOLOM2 = :B15 , RAE.KOLOM3 = :B14 , RAE.KOLOM4 = :B13 , RAE.KOLOM5 = :B12 , RAE.KOLOM6 = :B11 , RAE.KOLOM7 = :B10 , RAE.KOLOM8 = :B9 , RAE.KOLOM9 = :B8 , RAE.ORIG_SYSTEM_GROUP = :B7 , RAE.ORIG_SYSTEM_REFERENCE = :B6 , RAE.ROL_ID = :B5 , RAE.TRANSACTIE_AANGEMAAKT = :B4 , RAE.TRANSACTIE_BIJGEWERKT = :B3 , RAE.WIJZIGEN_TOEGESTAAN_VLAG = :B2 WHERE 1=1 AND RAE.ID = :B1
15-11-2012 14:36:07	UPDATE BUBS_MENU_ITEMS MIM SET MIM.AANGEMAAKT_DOOR = :B31 , MIM.AANGEMAAKT_IN = :B30 , MIM.BIJGEWERKT_DOOR = :B29 , MIM.BIJGEWERKT_IN = :B28 , MIM.DATUM_AANGEMAAKT = :B27 , MIM.DATUM_BIJGEWERKT = :B26 , MIM.DATUM_INTRF_BIJGEWERKT = :B25 , MIM.DATUM_INTRF_GELADEN = :B24 , MIM.FTE_ID = :B23 , MIM.KOLOM_SOORT = :B22 , MIM.KOLOM1 = :B21 , MIM.KOLOM10 = :B20 , MIM.KOLOM2 = :B19 , MIM.KOLOM3 = :B18 , MIM.KOLOM4 = :B17 , MIM.KOLOM5 = :B16 , MIM.KOLOM6 = :B15 , MIM.KOLOM7 = :B14 , MIM.KOLOM8 = :B13 , MIM.KOLOM9 = :B12 , MIM.MNU_ID = :B11 , MIM.MNU_ID_SUB = :B10 , MIM.OMSCHRIJVING_KNOP = :B9 , MIM.ORIG_SYSTEM_GROUP = :B8 , MIM.ORIG_SYSTEM_REFERENCE = :B7 , MIM.SNELTOETS = :B6 , MIM.SORTEER_VOLGORDE = :B5 , MIM.TRANSACTIE_AANGEMAAKT = :B4 , MIM.TRANSACTIE_BIJGEWERKT = :B3 , MIM.URL_PARAMETERS = :B2 WHERE 1=1 AND MIM.ID = :B1
15-11-2012 14:36:07	UPDATE BUBS_LICENTIES_V SET LCE_NAAM_SYSTEEM = :1, LCE_NAAM_DATABASE = :2, LCE_NAAM_SCHEMA = :3, LCE_DATUM_GELDIG_VANAF = :4, LCE_DATUM_GELDIG_TOT = :5, LCE_SLEUTEL = :6, LCE_MOD_PJT_MAX_AANTAL_ACTIEF = :7, LCE_MOD_AD_GW_VLAG = :8, LCE_MOD_EXACT_GW_VLAG = :9, LCE_MOD_EXCHANGE_GW_VLAG = :10, LCE_TAL_NL_VLAG = :11, LCE_TAL_EN_VLAG = :12, LCE_TAL_DE_VLAG = :13, LCE_TAL_FR_VLAG = :14, LCE_TAL_ES_VLAG = :15, LCE_TAL_RU_VLAG = :16, LCE_MOD_TIMELINE_VLAG = :17, LCE_MOD_GEGBEVEILIGING_VLAG = :18, LCE_MOD_DMS_VLAG = :19, LCE_MOD_WEBSERVICES_VLAG = :20, LCE_MOD_CRM_VLAG = :21, LCE_MOD_BVD_VLAG = :22, LCE_MOD_KSE_VLAG = :23, LCE_MOD_UUR_VLAG = :24, LCE_MOD_TAK_VLAG = :25, LCE_MOD_UNT_VLAG = :26, LCE_SUP_UPGRADES_VLAG = :27, LCE_SUP_HELPDESK_VLAG = :28, LCE_MOD_PO_MAX_AANTAL = :29, LCE_MOD_GEBRUIKERS_MAX_AANTAL = :30 WHERE LCE_SEQ = :31
15-11-2012 14:36:07	UPDATE BUBS_JOB_PARAMETERS JPR SET JPR.AANGEMAAKT_DOOR = :B27 , JPR.AANGEMAAKT_IN = :B26 , JPR.BIJGEWERKT_DOOR = :B25 , JPR.BIJGEWERKT_IN = :B24 , JPR.BJB_ID = :B23 , JPR.DATUM_AANGEMAAKT = :B22 , JPR.DATUM_BIJGEWERKT = :B21 , JPR.DATUM_INTRF_BIJGEWERKT = :B20 , JPR.DATUM_INTRF_GELADEN = :B19 , JPR.KOLOM_SOORT = :B18 , JPR.KOLOM1 = :B17 , JPR.KOLOM10 = :B16 , JPR.KOLOM2 = :B15 , JPR.KOLOM3 = :B14 , JPR.KOLOM4 = :B13 , JPR.KOLOM5 = :B12 , JPR.KOLOM6 = :B11 , JPR.KOLOM7 = :B10 , JPR.KOLOM8 = :B9 , JPR.KOLOM9 = :B8 , JPR.ORIG_SYSTEM_GROUP = :B7 , JPR.ORIG_SYSTEM_REFERENCE = :B6 , JPR.SPR_ID = :B5 , JPR.TRANSACTIE_AANGEMAAKT = :B4 , JPR.TRANSACTIE_BIJGEWERKT = :B3 , JPR.WAARDE = :B2 WHERE 1=1 AND JPR.ID = :B1
15-11-2012 14:36:07	UPDATE BUBS_MENU_ITEMS_V SET MNU_CODE = :1, MIM_SORTEER_VOLGORDE = :2, MNU_SUB_CODE = :3, FTE_CODE = NULL, MIM_OMSCHRIJVING_KNOP = NULL, MIM_URL_PARAMETERS = NULL WHERE MIM_ID = :4
15-11-2012 14:36:07	update bubs_licenties_v set lce_mod_po_max_aantal=50 , lce_sleutel=BUBS_SESSION.LCE_GET_CALCULATED_KEY(null)
15-11-2012 14:36:07	UPDATE BUBS_GEBRUIKER_MELDINGEN GMG SET GMG.AANGEMAAKT_DOOR = :B30 , GMG.AANGEMAAKT_IN = :B29 , GMG.BIJGEWERKT_DOOR = :B28 , GMG.BIJGEWERKT_IN = :B27 , GMG.DATUM_AANGEMAAKT = :B26 , GMG.DATUM_BIJGEWERKT = :B25 , GMG.DATUM_INTRF_BIJGEWERKT = :B24 , GMG.DATUM_INTRF_GELADEN = :B23 , GMG.DATUM_VERVALT = :B22 , GMG.GBR_ID = :B21 , GMG.GETOOND_VLAG = :B20 , GMG.KOLOM_SOORT = :B19 , GMG.KOLOM1 = :B18 , GMG.KOLOM10 = :B17 , GMG.KOLOM2 = :B16 , GMG.KOLOM3 = :B15 , GMG.KOLOM4 = :B14 , GMG.KOLOM5 = :B13 , GMG.KOLOM6 = :B12 , GMG.KOLOM7 = :B11 , GMG.KOLOM8 = :B10 , GMG.KOLOM9 = :B9 , GMG.MELDING_HTML = :B8 , GMG.MELDING_TEKST = :B7 , GMG.ORIG_SYSTEM_GROUP = :B6 , GMG.ORIG_SYSTEM_REFERENCE = :B5 , GMG.SEQ = :B4 , GMG.TRANSACTIE_AANGEMAAKT = :B3 , GMG.TRANSACTIE_BIJGEWERKT = :B2 WHERE 1=1 AND GMG.ID = :B1

The meaning of the entry fields is:

Date Last Seen	The date and time the execution of the statement was seen for the last time in the part of Invantive Estate where SQL statements are executed.
SQL Text	The SQL statement.

Tables

In this form you can request data on columns in tables and views.

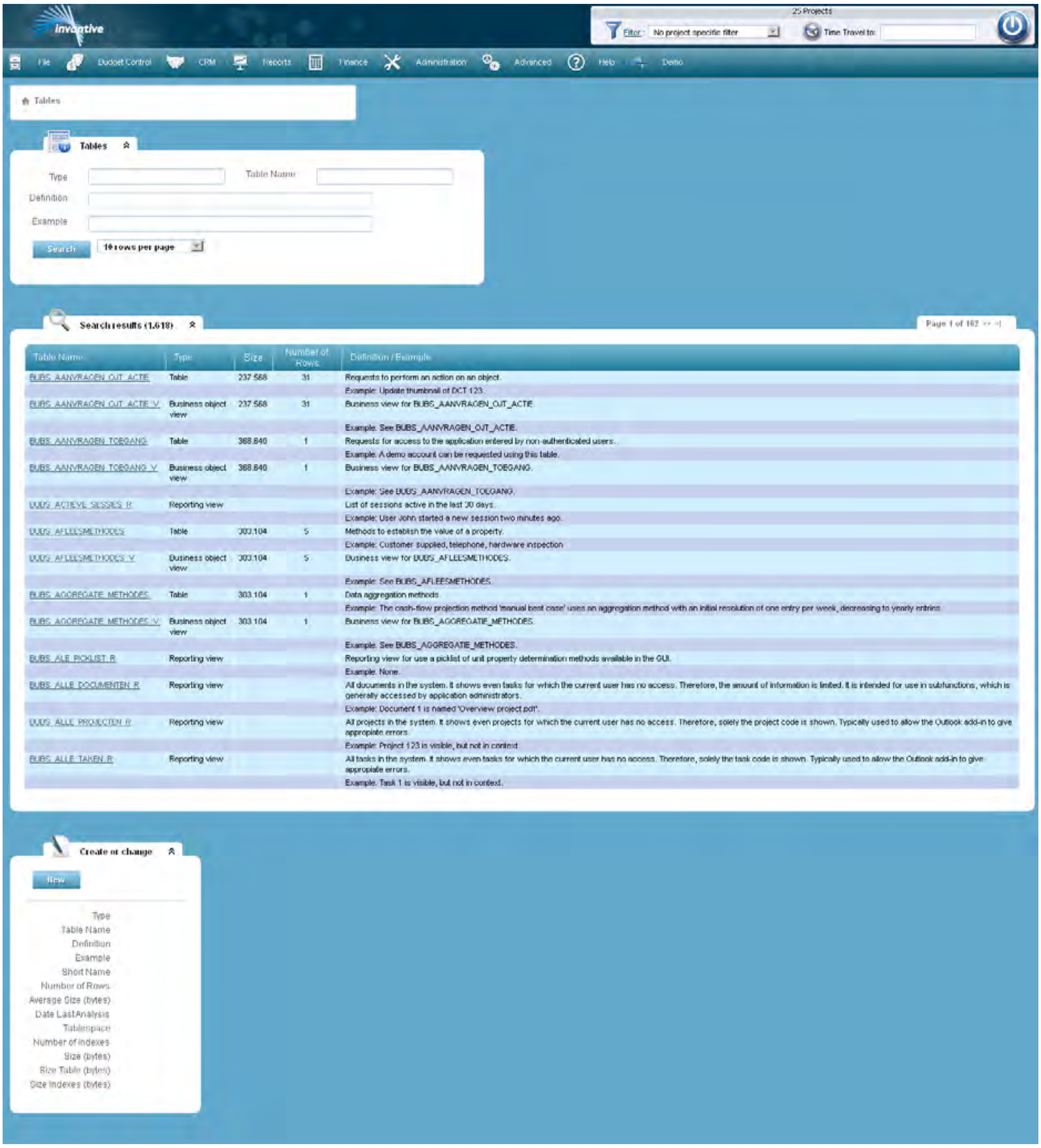

Invantive
25 Projects
Filter:
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Tables
Tables
Type
Table Name
Definition
Example
Search
10 rows per page
Search results (1,618)
Page 1 of 162
Create or change
New
Type
Table Name
Definition
Example
Short Name
Number of Rows
Average Size (bytes)
Date LastAnalysis
Tablespace
Number of indexes
Size (bytes)
Size Table (bytes)
Size Indexes (bytes)

Table Name	Type	Size	Number of Rows	Definition / Example
BUBS_AANVRAGEN_OJT_ACTIE	Table	237.568	31	Requests to perform an action on an object. Example: Update thumbnail of DCT 123.
BUBS_AANVRAGEN_OJT_ACTIE_V	Business object view	237.568	31	Business view for BUBS_AANVRAGEN_OJT_ACTIE. Example: See BUBS_AANVRAGEN_OJT_ACTIE.
BUBS_AANVRAGEN_TOEGANG	Table	368.840	1	Requests for access to the application entered by non-authenticated users. Example: A demo account can be requested using this table.
BUBS_AANVRAGEN_TOEGANG_V	Business object view	368.840	1	Business view for BUBS_AANVRAGEN_TOEGANG. Example: See BUBS_AANVRAGEN_TOEGANG.
BUBS_ACTIEVE_SESSIES_R	Reporting view			List of sessions active in the last 30 days. Example: User John started a new session two minutes ago.
BUBS_AFLEESMETHODES	Table	303.104	5	Methods to establish the value of a property. Example: Customer supplied, telephone, hardware inspection.
BUBS_AFLEESMETHODES_V	Business object view	303.104	5	Business view for BUBS_AFLEESMETHODES. Example: See BUBS_AFLEESMETHODES.
BUBS_AGGREGATIE_METHODES	Table	303.104	1	Data aggregation methods. Example: The cash-flow projection method 'manual best case' uses an aggregation method with an initial resolution of one entry per week, decreasing to yearly entries.
BUBS_AGGREGATIE_METHODES_V	Business object view	303.104	1	Business view for BUBS_AGGREGATIE_METHODES. Example: See BUBS_AGGREGATIE_METHODES.
BUBS_ALE_PICKLIST_R	Reporting view			Reporting view for use a picklist of unit property determination methods available in the GUI. Example: None.
BUBS_ALLE_DOCUMENTEN_R	Reporting view			All documents in the system. It shows even tasks for which the current user has no access. Therefore, the amount of information is limited. It is intended for use in subfunctions, which is generally accessed by application administrators. Example: Document 1 is named 'Overview project.pdf'.
BUBS_ALLE_PROJECTEN_R	Reporting view			All projects in the system. It shows even projects for which the current user has no access. Therefore, solely the project code is shown. Typically used to allow the Outlook add-in to give appropiate errors. Example: Project 123 is visible, but not in context.
BUBS_ALLE_TAKEN_R	Reporting view			All tasks in the system. It shows even tasks for which the current user has no access. Therefore, solely the task code is shown. Typically used to allow the Outlook add-in to give appropiate errors. Example: Task 1 is visible, but not in context.

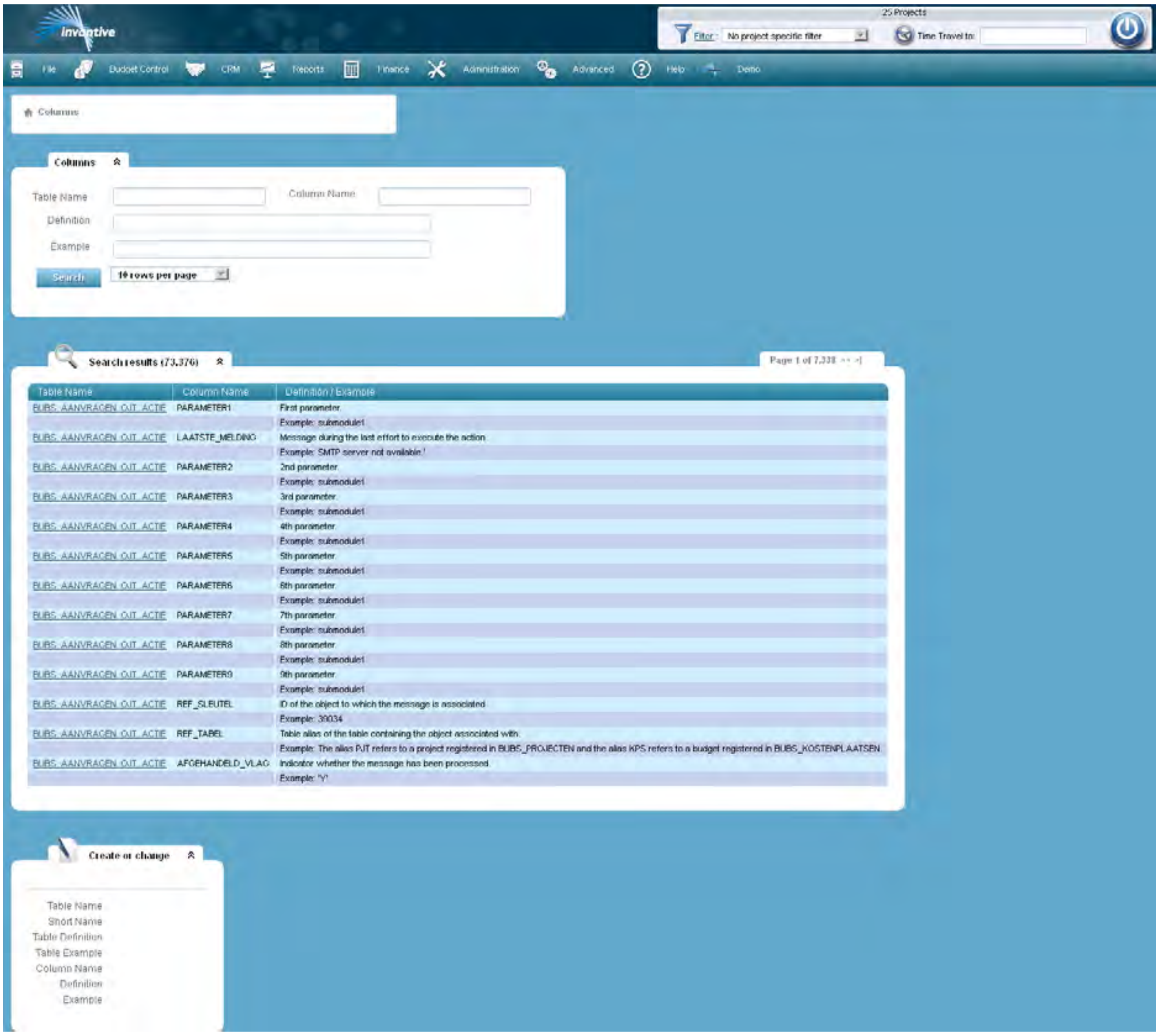
The meaning of the entry fields is:

Type	The table type. ‘Table’ means a physical table, ‘business object view’ represents a business view and ‘reporting view’ represents a reporting view. See also Structure.
Table Name	The name of the table.
Definition	The definition of the data in the table (only available in English).
Example	An example of the data in the table (only available in English).
Short Name	The short name of the table.
Number of Rows	An indication of the number of rows in the table.
Average Size	An indication of the average size in bytes of a row in the table.
Date Last Analysis	The last time at which the statistics were recalculated.
Tablespace	The ‘tablespace’ where the table is stored.
Number of Indexes	The number of indexes in the table.
Size	The total size of the table and the related indexes.
Size Table	The size of the table.

Size Indexes	The size of the indexes belonging to the table.

Columns

In this form you can request data on columns in tables and views.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Columns
Columns
Table Name
Column Name
Definition
Example
Search
10 rows per page
Create or change
Table Name
Short Name
Table Definition
Table Example
Column Name
Definition
Example

Search results (73,376)

Page 1 of 7,338

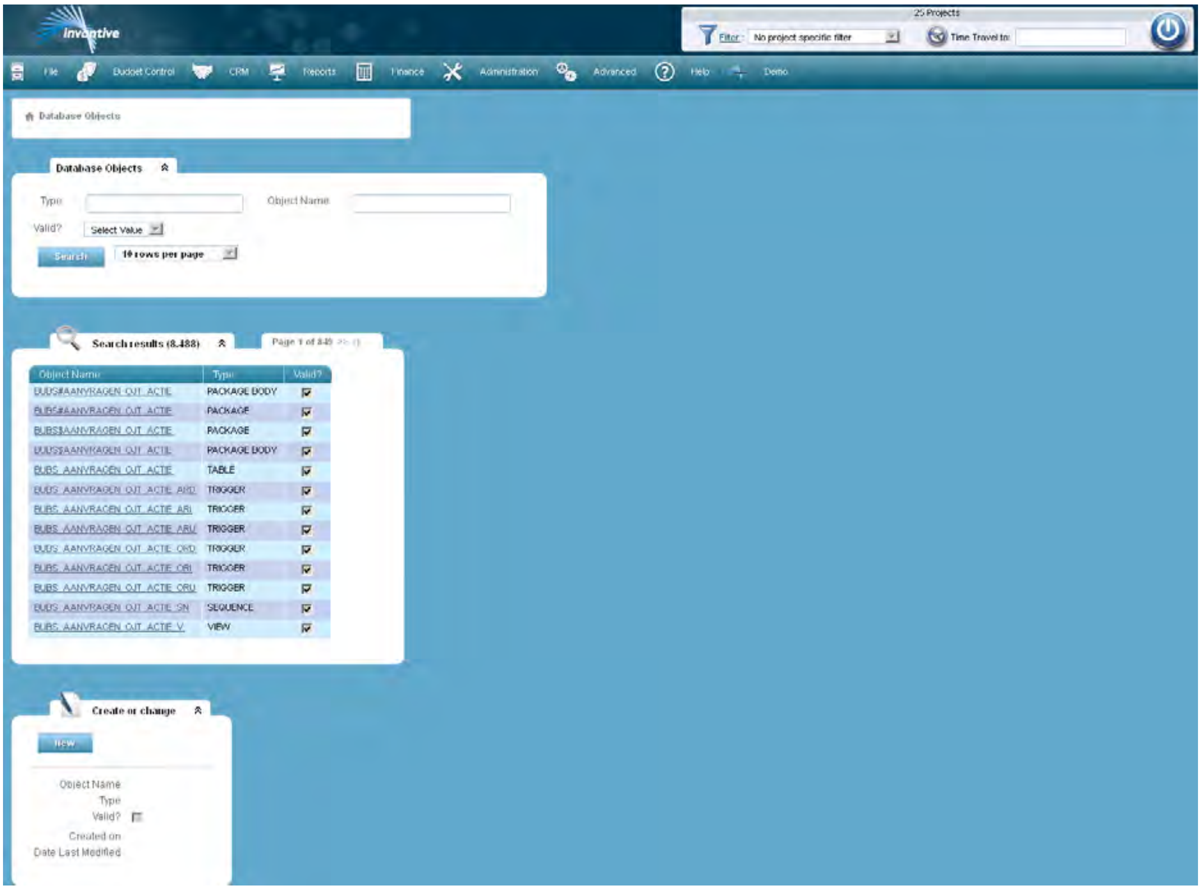
Table Name	Column Name	Definition / Example
BUBS_AANVRAGEN_UIT_ACTIE	PARAMETER1	First parameter. Example: submodule1
BUBS_AANVRAGEN_UIT_ACTIE	LAATSTE_MELDING	Message during the last effort to execute the action. Example: SMTP server not available.'
BUBS_AANVRAGEN_UIT_ACTIE	PARAMETER2	2nd parameter. Example: submodule1
BUBS_AANVRAGEN_UIT_ACTIE	PARAMETER3	3rd parameter. Example: submodule1
BUBS_AANVRAGEN_UIT_ACTIE	PARAMETER4	4th parameter. Example: submodule1
BUBS_AANVRAGEN_UIT_ACTIE	PARAMETER5	5th parameter. Example: submodule1
BUBS_AANVRAGEN_UIT_ACTIE	PARAMETER6	6th parameter. Example: submodule1
BUBS_AANVRAGEN_UIT_ACTIE	PARAMETER7	7th parameter. Example: submodule1
BUBS_AANVRAGEN_UIT_ACTIE	PARAMETER8	8th parameter. Example: submodule1
BUBS_AANVRAGEN_UIT_ACTIE	PARAMETER9	9th parameter. Example: submodule1
BUBS_AANVRAGEN_UIT_ACTIE	REF_SLEUTEL	ID of the object to which the message is associated. Example: 39034
BUBS_AANVRAGEN_UIT_ACTIE	REF_TABEL	Table alias of the table containing the object associated with. Example: The alias PJT refers to a project registered in BUBS_PROJECTEN and the alias KPS refers to a budget registered in BUBS_KOSTENPLAATSEN.
BUBS_AANVRAGEN_UIT_ACTIE	AFGEHANDELD_VLAG	Indicator whether the message has been processed. Example: 'Y'

The meaning of the entry fields is:

Table Name	The name of the table.
Short Name	The short name of the table.
Table Definition	The definition of the data in the table (only available in English).
Table Example	An example of the data in the table (only available in English).
Column Name	The name of the column.
Definition	The definition of the data in the column (only available in English).
Example	An example of the data in the column (only available in English).

Database Objects

In this screen you can request data on the present database objects (packages).


Invantive
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
25 Projects
Filter
No project specific filter
Time Travel to
Database Objects
Search
New
Create or change

Database Objects

Type:
Object Name:
Valid?: Select Value
10 rows per page

Search results (8.488)
Page 1 of 849

Object Name	Type	Valid?
BUBS#AANVRAGEN_OJT_ACTIE	PACKAGE BODY	☑
BUBS#AANVRAGEN_OJT_ACTIE	PACKAGE	☑
BUBS$AANVRAGEN_OJT_ACTIE	PACKAGE	☑
BUBS$AANVRAGEN_OJT_ACTIE	PACKAGE BODY	☑
BUBS_AANVRAGEN_OJT_ACTIE	TABLE	☑
BUBS_AANVRAGEN_OJT_ACTIE_ARD	TRIGGER	☑
BUBS_AANVRAGEN_OJT_ACTIE_ARI	TRIGGER	☑
BUBS_AANVRAGEN_OJT_ACTIE_ARU	TRIGGER	☑
BUBS_AANVRAGEN_OJT_ACTIE_ORD	TRIGGER	☑
BUBS_AANVRAGEN_OJT_ACTIE_ORI	TRIGGER	☑
BUBS_AANVRAGEN_OJT_ACTIE_ORU	TRIGGER	☑
BUBS_AANVRAGEN_OJT_ACTIE_SN	SEQUENCE	☑
BUBS_AANVRAGEN_OJT_ACTIE_V	VIEW	☑

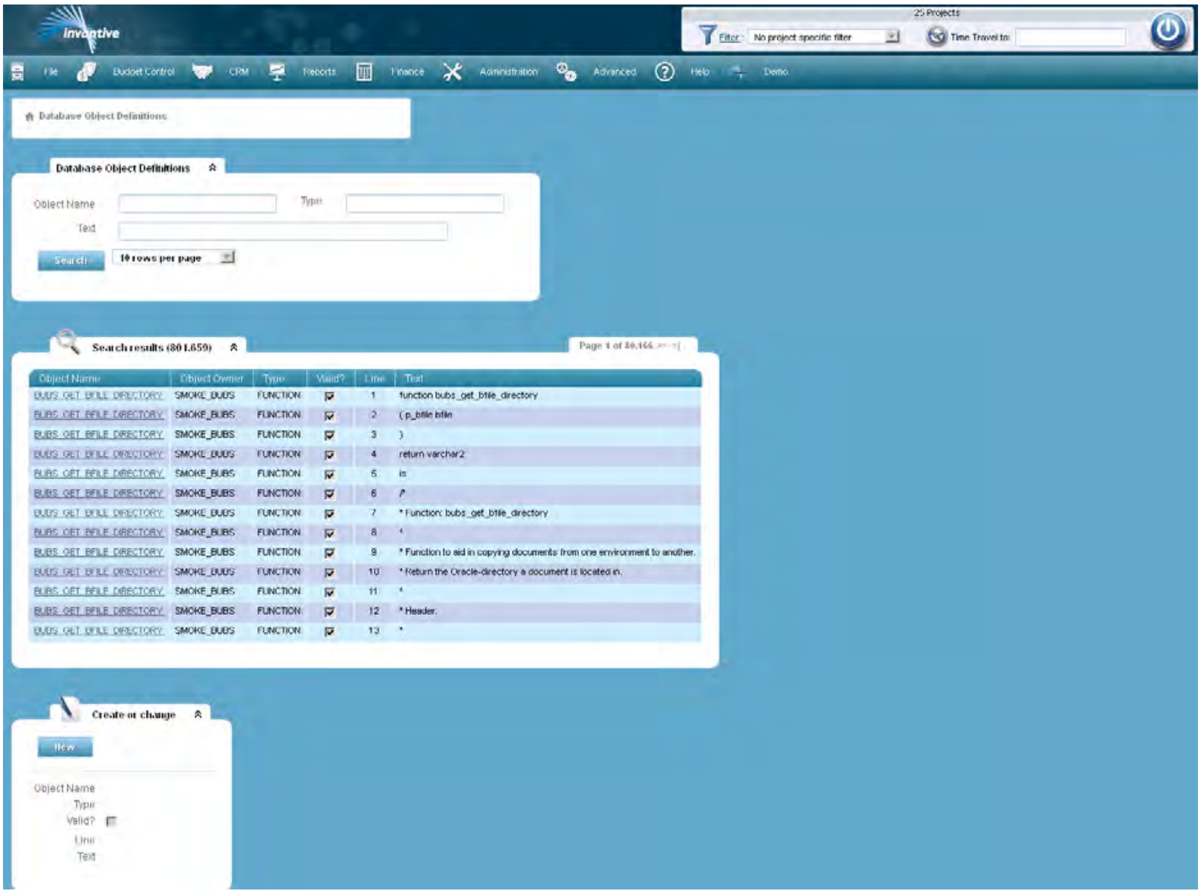
Object Name
Type
Valid? ☐
Created on
Date Last Modified

The meaning of the entry fields is:

Name of Object	The name of the object.
Type	The type of object.
Valid?	Is the definition valid or are there errors in the software which cause that it does not compile?
Created at	The time at which the object was stored for the first time.
Date Last Modified	The last time at which the object was changed.

Database Object Definitions

In this screen you can request information on the present database objects (packages) at detail line level in the source code.



Filter: No project specific filter

10 rows per page

Search results (801.659)

Page 1 of 80.166

Object Name	Object Owner	Type	Valid?	Line	Text
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	1	function bubs_get_bfile_directory
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	2	(p_bfile bfile
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	3	)
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	4	return varchar2
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	5	is
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	6	/*
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	7	* Function: bubs_get_bfile_directory
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	8	*
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	9	* Function to aid in copying documents from one environment to another.
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	10	* Return the Oracle-directory a document is located in.
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	11	*
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	12	* Header.
BUBS_GET_BFILE_DIRECTORY	SMOKE_BUBS	FUNCTION	☑	13	*

Valid? ☐

The meaning of the entry fields is:

Name of Object	The name of the object.
Object Owner	The database schedule which is the owner of the object.
Type	The type of object.
Valid?	Is the definition valid or are there errors in the software which cause that it does not compile?
Line	The line number of the program.
Text	The statements of the program.

1.2.8.6 Application Development

This section contains information about the functions needed to realize extensions within Invantive Estate. This information is intended only for use by the technical employees of the supplier. Do not use these functions unless you are an employee of the supplier or unless you have been asked to use these function by the support desk of the supplier.

Improper use could make Invantive Estate completely unusable. Without prior approval the supplier can take no responsibility for the correct function of Invantive Estate and you will be charged for possible costs for correction, direct and indirect consequential damage and/or support.

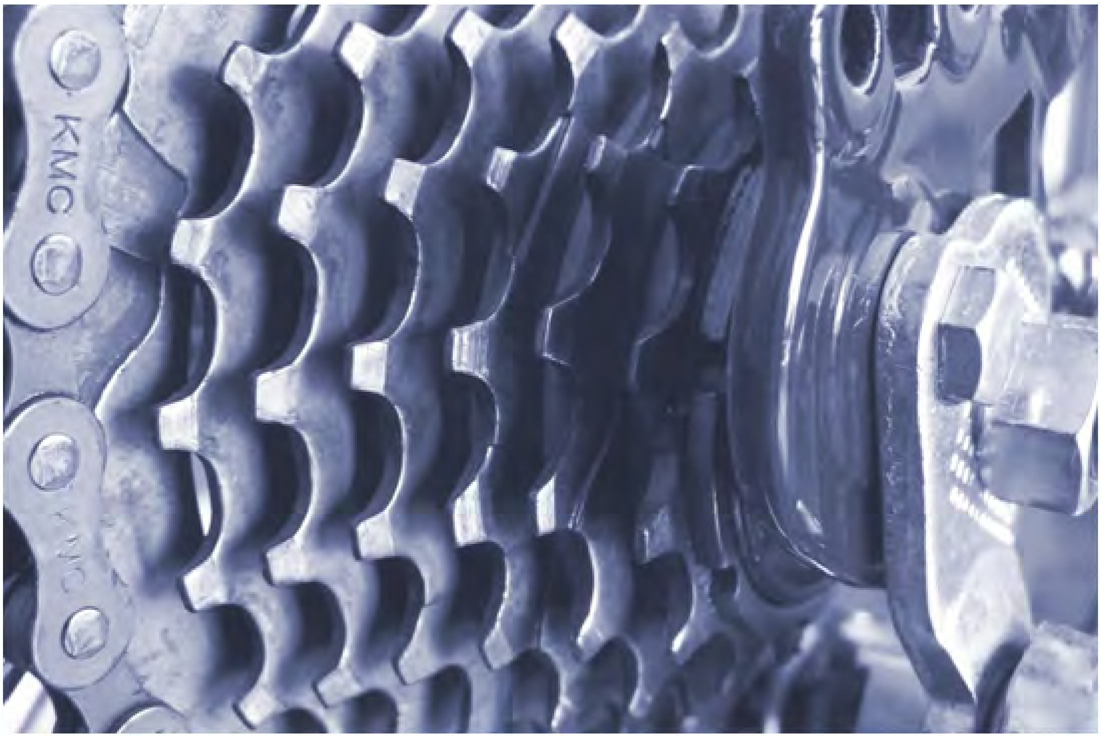
Invantive Producer

This chapter contains information about Invantive Producer. The functions normally can be found under the menu item ‘Invantive Producer’.

Invantive Producer provides two of the three technical layers of Invantive Estate, namely the storage layer with tables and company layer with views and business logic. See also Structure.

Concept

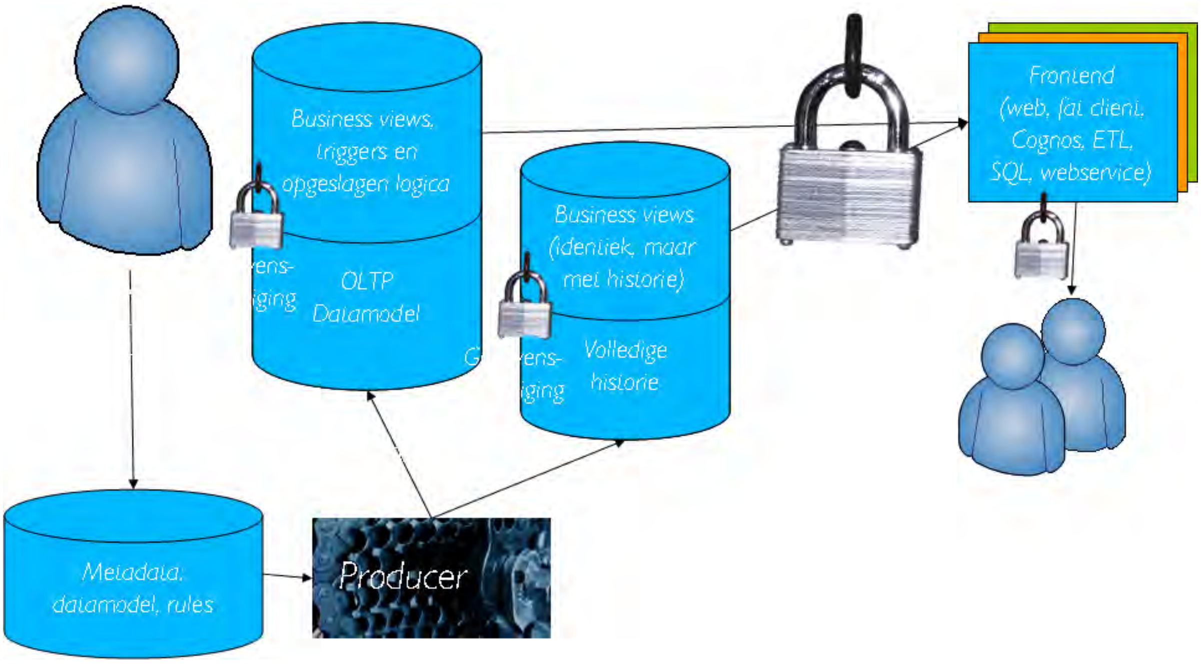
This chapter describes the concepts of Invantive Producer.



Invantive Producer is a tool for developers to build applications that meet the requirements of the financial sector and other sectors with high standards of integrity and accountability. Invantive Producer applications are characterized by:

- being more early ready with construction and testing,
- delivering a consistently high quality product, and
- are flexible to adapt to changing circumstances.

The basis of Invantive Producer is a repository of functional metadata. These metadata describe the normalized data model, the objects of the business and the business rules. Using this metadata, as shown in the figure below, a result will be produced by Invantive Producer Invantive without human intervention.


Business views, triggers en opgeslagen logica
OLTP Datamodel
Business views (identiek, maar met historie)
Volledige historie
Frontend (web, fat client, Cognos, ETL, SQL, webservice)
Metadata: datamodel, rules
Producer

The result is a three-tier architecture:

- User interface: display of information.
- Business logic: validation, image of actions on the data, business objects.
- Database: the storage of data in tables.

The three-tier architecture separates the functionality and data. The data can be reused or combined with other applications.

The functionality of the result include:

- Normalized data model: single version of the truth.
- Automatic upgrade of the data model between versions.
- Constraints and referential constraints to guard the integrity of the data.
- Data security: users have access only to the information they are allowed to.
- AAA: standard features for authentication, authorization and audit trail.
- Image data to manageable business objects.
- Image of transactions on business objects to the underlying data model.
- Open: focus on data integration, both incoming and outgoing.
- Historical trail with time traveling.
- The result is expandable with handwritten code.

The following simple example shows how, based on a data model and relationships, a business layer is realized:

The business object acme_gebruiker_rollen_v is composed of three elements (for example, registered with use of the screen Views) 289:

- Element 1: acme_gebruiker_rollen, alias grl.
- Element 2: acme_rollen, alias rol, relation: rol.id=grl.rol_id.
- Element 3: acme_gebruikers, alias gbr, relation: gbr.id=grl.gbr_id.

Based on this specification Invantive Producer will produce a database view similar with the following view:

```
create or replace force view acme_gebruiker_rollen_v
as
/*
* Generated by it_install, version:
* $Header: http://svn.invantive.com/repos/p104/trunk/help/nl/ma-
nual/Topics/ip-voorbeeld-bedrijfslaag.xml 19891 2012-10-09
13:23:03Z gle3 $
*/
select grl.id                    grl_id
,      grl.orig_system_reference  grl_orig_system_reference
,      grl.datum_intrf_geladen    grl_datum_intrf_geladen
,      grl.datum_intrf_bijgewerkt grl_datum_intrf_bijgewerkt
,      rol.id                     rol_id
,      rol.code                   rol_code
,      rol.omschrijving           rol_omschrijving
,      rol.alle_prjctn_zien_vlag  rol_alle_prjctn_zien_vlag
,      ...
,      gbr.wachtwoord             gbr_wachtwoord
,      gbr.orig_system_reference  gbr_orig_system_reference
,      gbr.datum_intrf_geladen    gbr_datum_intrf_geladen
from   acme_gebruiker_rollen          grl
join   acme_rollen                    rol
on     rol.id = grl.rol_id
join   acme_gebruikers                gbr
on     gbr.id = grl.gbr_id
```

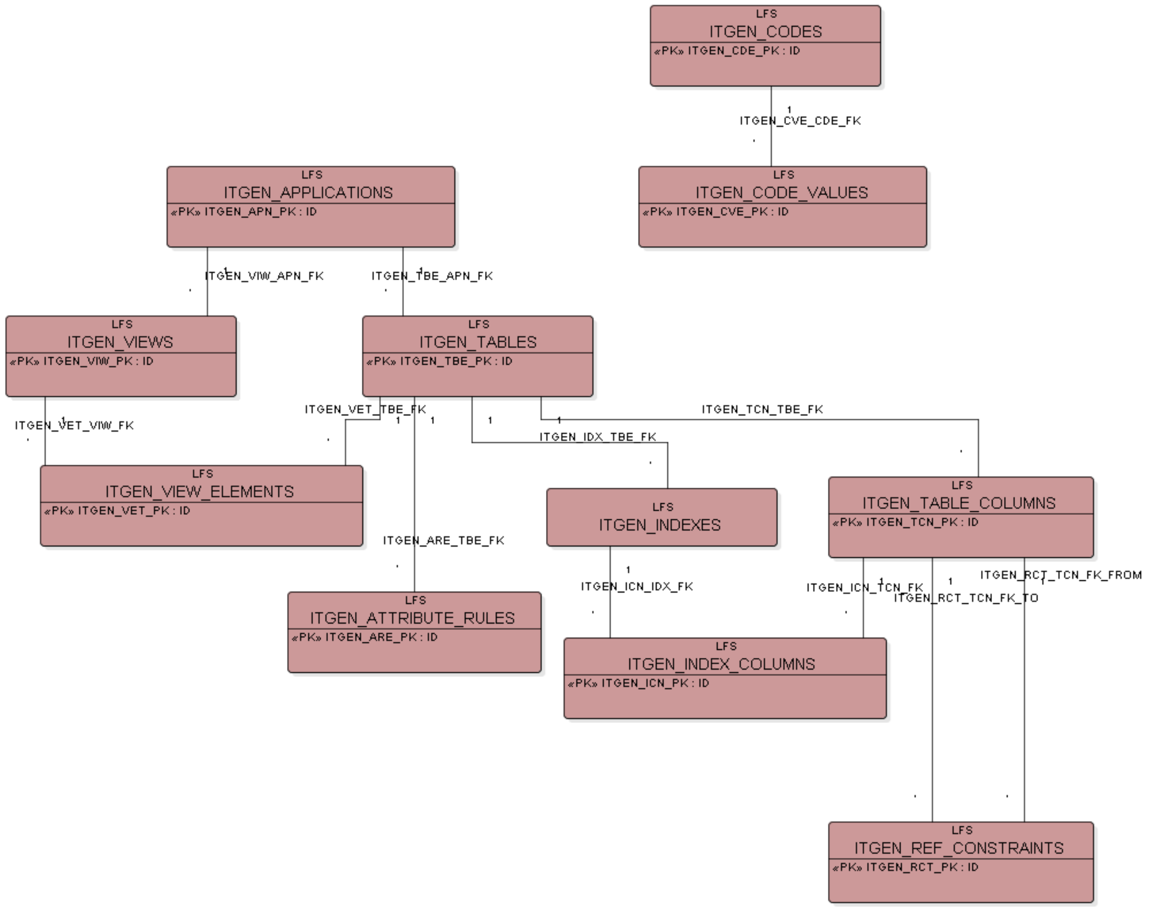
This view can easily be used to present data in the normalized data model as a business object. It is no longer necessary that users of this view have to determine every time again relationships: all information is already available as fields in the business object, even though the information comes from multiple tables.

Moreover, the result contains a number of instead-of triggers. These ensure that any changes or additions of data in the view result in the correct actions on the underlying tables:

```
create or replace trigger acme_gebruiker_rollen_ord
instead of delete on acme_gebruiker_rollen_v
for each row
...
begin
  --
  -- Populate the old and new records...
  -- Check the Access Control list for this transaction...
  -- Fill-in default values...
  -- Call the before-delete user hook if available...
  -- Delete from base table...
  --
  delete
  from   acme_gebruiker_rollen grl
  where  1=1
  and    grl.id = l_old.grl_id
  ; ...
  --
  -- Call the after-delete user hook if available.
  --
  if acme#gebruiker_rollen.has_after_delete
  then
    acme#gebruiker_rollen.after_delete(l_old, l_new);
  end if;
exception...
end;
```

The result of Invantive producer is based on metadata defined in the Invantive Producer repository. The Invantive Producer repository will be installed along with an application.

The normalized data model of the Invantive Producer repository is as follows:


LFS
ITGEN_CODES
«PK» ITGEN_CDE_PK : ID
ITGEN_CVE_CDE_FK
LFS
ITGEN_CODE_VALUES
«PK» ITGEN_CVE_PK : ID
LFS
ITGEN_APPLICATIONS
«PK» ITGEN_APN_PK : ID
ITGEN_VIW_APN_FK
ITGEN_TBE_APN_FK
LFS
ITGEN_VIEWS
«PK» ITGEN_VIW_PK : ID
LFS
ITGEN_TABLES
«PK» ITGEN_TBE_PK : ID
ITGEN_VET_VIW_FK
ITGEN_VET_TBE_FK
ITGEN_TCN_TBE_FK
ITGEN_IDX_TBE_FK
LFS
ITGEN_VIEW_ELEMENTS
«PK» ITGEN_VET_PK : ID
LFS
ITGEN_INDEXES
LFS
ITGEN_TABLE_COLUMNS
«PK» ITGEN_TCN_PK : ID
ITGEN_ARE_TBE_FK
ITGEN_ICN_IDX_FK
ITGEN_ICN_TCN_FK
ITGEN_RCT_TCN_FK_FROM
ITGEN_RCT_TCN_FK_TO
LFS
ITGEN_ATTRIBUTE_RULES
«PK» ITGEN_ARE_PK : ID
LFS
ITGEN_INDEX_COLUMNS
«PK» ITGEN_ICN_PK : ID
LFS
ITGEN_REF_CONSTRAINTS
«PK» ITGEN_RCT_PK : ID

Each application has a row in itgen_applications (loading via itgen_applications_v). Normally each application has two rows:

- A row for Invantive Producer.
- A row for the application.

The loading of data into Invantive Producer is done through the business layer. This business layer is produced by Invantive Producer.

After creating the application you specify the data model by loading data in:

- Tables in Itgen_tables_v.
- Columns in Itgen_table_columns_v.
- Indexes in itgen_indexes_v and itgen_index_columns_v.
- Referential constraints in itgen_ref_constraints_v.

Then you specify the business tier:

- Views in itgen_views_v.
- Parts of the view in itgen_view_elements_v.
- Business rules in itgen_attribute_rules_v.

Invantive Producer knows the ‘AUTOCOMPLETE’ function to complete a basic data model to a production-ready data model. The autocomplete is controlled based on settings in the application and data in the code tables itgen_codes_v and itgen_code_values_v.

You can load the repository via screens or via insert statements. In practice, it is very easy to load the data using a Microsoft Excel worksheet. This worksheet is called default <application code>_metadata.xlsx and creates a control file for SQL * Loader with the name<application code>_metadata.ctl en <application code>_metadata.dat.

After defining the metadata, the data model can be generated with the next statements:

```
begin
  --
  -- Aanmelden op Invantive Producer.
  --
  itgen_session.set_session_info
  ( '<applicatie code> installatie.sql'
  , 'install'
  , 'system'
  , 'various'
  , sys_Filter('userenv', 'ip_address')
  , sys_Filter('userenv', 'host')
  , 'n/a'
  , to_char(sysdate,'yyyymmddhh24miss')
  );
  --
  -- Aanmaken van:
  -- * tabellen
  -- * indexen
  -- * referentiele constraints
  --
  <applicatie code>_install.sync_db_with_metadata;
end;
/
```

These statements ensure that the physical data model will be similar to the data model in the repository. New columns get - if a conversion function is known - automatically a new value.

To generate the business layer, run the following statement:

```
begin
  <applicatie code>_sct_generate.run('&&bubs_usr', '&&bubs_u-
ser_role‘,’&&bubs_user_reader_role');
```

```
end;
/
```

The generation process checks all parts of the business layer to see if changes should be made. This takes approximately 2 to 5 seconds per business object. For large systems this can be slow and hinder the development process.. Therefore you can use the following call:

```
begin
  <applicatie code>_sct_generate.run('&&bubs_usr', '&&bubs_u-
ser_role‘,’&&bubs_reader_role', 'PATROON');
end;
/
```

For example consider the following statement to update all business objects with ‘project_saldo_vnr’ in the name:

```
begin
  bubs_sct_generate.run(user, user || '_USER', user ||'_READER',
'project_saldo_vnr');
end;
/
```

Based on a minimum of data input, the function autocomplete of Invantive Producer, will produce and add the necessary requirements to run the application. This usually saves a factor five to ten in volume of work.

The necessary data for autocomplete are:

- Application.
- Tables.
- Table columns with the exception of system columns, but including referential ID columns.
- Natural key indexes and columns.
- Image Function for the view name to the alias via the Invantive Producer code domain ‘<application code>_lov_view_name_to_code’.
- Names of business views.
- Reporting views.
- Business rules.
- Possible extra view elements which cannot be determined automatically. For these views, use serial numbers of 900 or higher.

The autocomplete subsequently performs the following actions:

Cleanup:

- Remove remains of data in the repository that were created previously with the autocomplete function for the selected application.

Add technical fields:

- Create for each table a column ‘ID’ that will be used as primary key if it does not exist already.
- Each table gets a primary key named ‘<application code>_<table alias>_pk’ with the column ‘ID’.
- Create for each table the following audit columns if these do not exist already: creation da-

te, created by, created in, transaction creation, date last updated, last updated by, last updated in, transaction last updated, date created by interface, date updated by interface, initial system group, unique original system reference, free column type and ten free-columns.

- A unique index named '<application code>_<table alias>_uk_orig' is created for the original unique system reference.

LOV-views:

- LOV views for each column in the data model with a name ending with the code column postfix as set in the application (usually 'ind'). The name of the view is based on the application setting View name, in which the occurrences of ':tcn_name' will be replaced by the name of the column, without the code column postfix. The alias of the LOV view will be retrieved from the description of the code value in the code '<application code>_lov_view_-name_to_code' in Invantive Producer. The definition of the view is based on the application setting View template, in which the occurrences of ':tcn_name' are being replaced by the name of the column, without the code column postfix.
  For example: The column 'gender_ind' results to a LOV view named '<application code>_lov_gender_r'.
  No LOV view is added if a view with this name already exists.
- For each LOV view an artificial table will be rendered, so LOV views can also be used to establish relationships.
- For each LOV view also a referential constraint will be created between the artificial table and the related column.

Referential constraints and related indexes:

- A referential constraint is added for each column that begins with three letters and ends in '_id' of '_id_'. The three letters are used to determine the appropriate table.
- Referential indexes are added for each column that refers to a different table.

Business Objects

- For each table a business object will be created which contains all the tables to which this table refers directly or indirectly.

To use Invantive Producer you will need:

- Oracle RDBMS for data storage, metadata and business tier.

The performance of Invantive Producer is based on a duo core workstation:

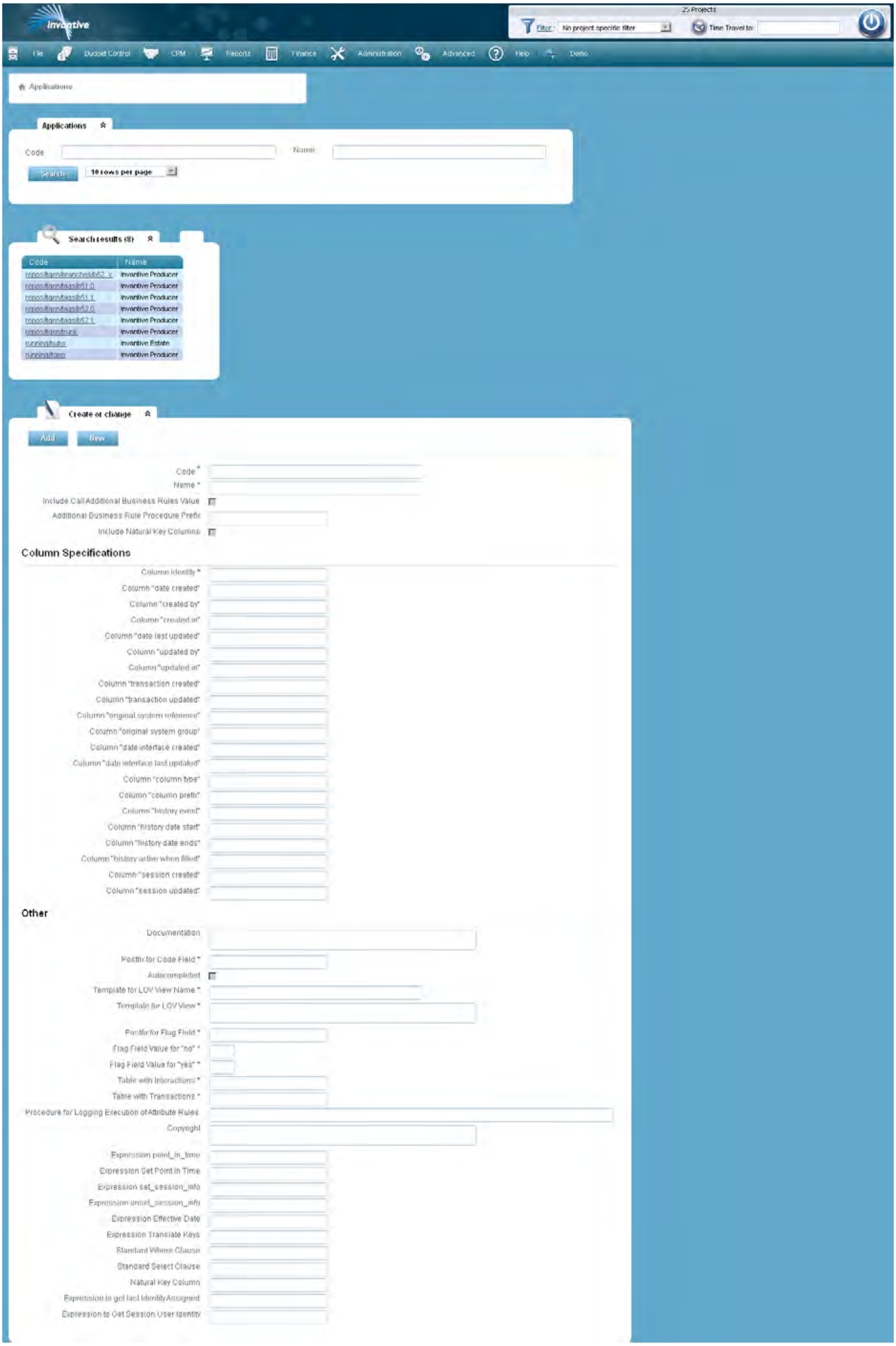
- Full production of 125 business objects with over 3,000 database objects and 240,000 code lines: 20 minutes.
- Incremental production with a few changes: a few seconds.
- Typical number of business transactions pro minute > 15.000 tpm. Less in case of complex business rules.
- Manual coding: usually <2%.

Applications

In this form you can register and change applications.

An application is a coherent group of data and functions.

The registration of applications is a typical activity for application developers. See the warning under Application Development 272.


Invantive
25 Projects
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Applications
Applications
Code
Name
Search
Search results (8)
Create or change
Add
New
Code *
Name *
Include Call Additional Business Rules Value
Additional Business Rule Procedure Prefix
Include Natural Key Columns
Column Specifications
Column identity *
Column "date created"
Column "created by"
Column "created in"
Column "date last updated"
Column "updated by"
Column "updated in"
Column "transaction created"
Column "transaction updated"
Column "original system reference"
Column "original system group"
Column "date interface created"
Column "date interface last updated"
Column "column type"
Column "column prefix"
Column "history event"
Column "history date start"
Column "history date ends"
Column "history active when filled"
Column "session created"
Column "session updated"
Other
Documentation
Postfix for Code Field *
Autocompleted
Template for LOV View Name *
Template for LOV View *
Postfix for Flag Field *
Flag Field Value for "no" *
Flag Field Value for "yes" *
Table with Interactions *
Table with Transactions *
Procedure for Logging Execution of Attribute Rules
Copyright
Expression point_in_time
Expression Set Point in Time
Expression set_session_info
Expression unset_session_info
Expression Effective Date
Expression Translate Keys
Standard Where Clause
Standard Select Clause
Natural Key Column
Expression to get last Identity Assigned
Expression to Get Session User Identity

Filter: No project specific filter

10 rows per page

Code	Name
repos/itgen/branches/b52_v	Invantive Producer
repos/itgen/tags/b51.0	Invantive Producer
repos/itgen/tags/b51.1	Invantive Producer
repos/itgen/tags/b52.0	Invantive Producer
repos/itgen/tags/b52.1	Invantive Producer
repos/itgen/trunk	Invantive Producer
running/bubs	Invantive Estate
running/itgen	Invantive Producer

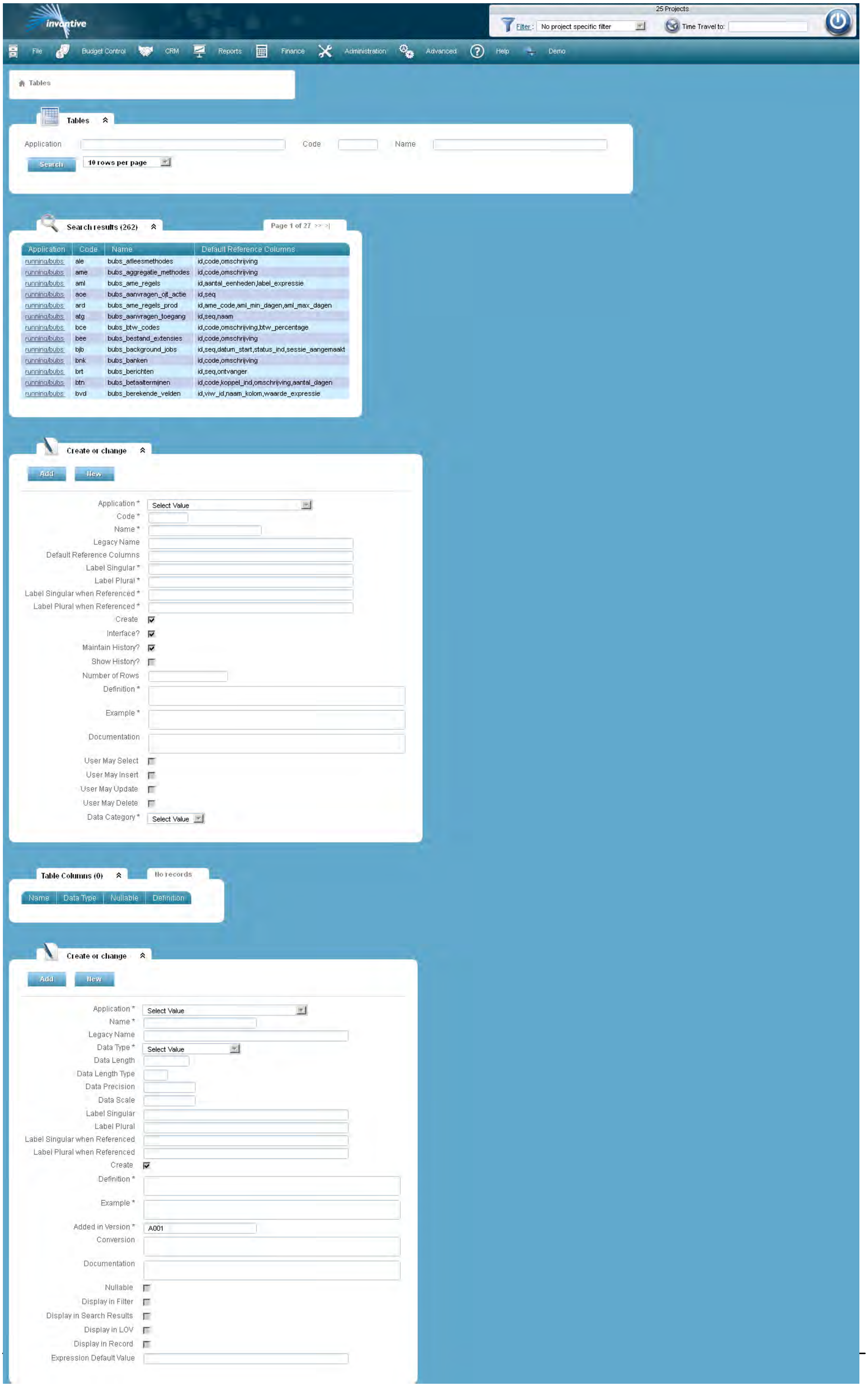
The meaning of the entry fields is:

General	
Code	The code which refers to the application.
Name	The name of the application.
include call additional business rules	The business tier gets requests for the application specific extensions when checked. See Additional Business Rules 256.
Prefix procedure additional business rule	The prefix of the name of the packages for the application specific extensions. To call these extensions, the prefix is combined with the table alias and '.fill_defaults'. See Additional Business Rules 256.
Include Natural Key Columns	
Column Specifications	
Column Identity	Code used to identify (uniquely) the row.
Column 'date created'	The name of the column that is automatically filled by Invantive Producer with the date a row was added.
Column 'created by'	The name of the column automatically filled by Invantive Producer, showing the name of the user who added the row.
Column 'created in'	The name of the column automatically filled by Invantive Producer, showing the name of the function in which a row was added.
Column 'date last update'	The name of the column that is automatically filled by Invantive Producer with the date on which last row was calculated.
Column 'updated by'	The name of the column that is automatically filled by Invantive Producer with the name of the user that calculated the last row.
Column 'updated in'	The name of the column that is automatically filled by Invantive Producer with the name of the function which calculated the last row.
Column 'transaction created'	The name of the column automatically filled by Invantive Producer with the number of the transaction which added the row.
Column 'transaction updated'	The name of the column that is automatically filled by Invantive Producer with the number of the transaction which calculated the last row.
Column 'original system reference'	The name of the column used to register a uniquely reference to a possible supplying system.
Column 'original system group'	The name of the column used to register a non-unique reference to the supplying system.
Column 'date interface created'	The name of the column used to store the data on which a row was added using the interface.
Column 'date interface updated'	The name of the column used to store the data on which the last row was calculated using the interface.
Column 'column type'	The name of the column used to define the structure of the free columns.
Column 'column prefix'	The prefix of the name of the columns used as free columns. The full column name consists of the prefix and the serial number.
Column 'history event'	The name of the column in a history table that is automatically filled by Invantive Producer with the type of change in the current table. See Historical Storage.
Column 'history date start'	The name of the column in a history table, automatically filled out by Invantive Producer with the date on which a row became current.
Column 'historical date ends'	The name of the column in a history table, automatically filled out by Invantive Producer with the date on which a row became non-current.
Column 'history active when filled'	The name of the column in a history table that is automatically filled out by Invantive Producer with 'Y' if the current row is current.
Column 'session created'	The name of the column where the session which was created is saved.
Column 'session updated'	The name of the column where the session which was updated is saved.
Other	
Documentation	Documentation of the application.
Postfix for Code Field	Postfix added to the field name if the field contains code.
Autocompleted	Indicates if typed text will be completed in case the text was entered before into the application.
Template for LOV View Name	Determines the format of the name list of LOV views.
Template for LOV View	Determines the format of the list of LOV views.
Postfix for flag field	Postfix added to the name of an indicator field.
Flag field value for 'no'	Value which is registered if an indicator is negative.
Flag field value for 'yes'	Value which is registered if an indicator is positive.

Table with Interactions	Name of the table which contains the Interactions 228.
Table with Transactions	Name of the table that contains the Transactions 227.
Procedure for Logging Execution of Attribute Rules	Name of the procedure that registers the execution of attribute rules.
Copyright	Displays the legal person who has the exclusive copyrights on the software.
Expression point_in_time	
Expression Set Point in Time	
Expression set_session_info	
Expression unset_session_info	
Expression Effective Date	
Expression Translate Keys	
Standard Where Clause	
Standard Select Clause	
Natural Key Column	
Expression to get last Identity Assigned	
Expression to Get Session User Identity	

Tables

In this screen you can register and change tables.



No project specific filter

Tables

Application ___ Code ___ Name ___

10 rows per page

Search results (262)

Page 1 of 27 >> >|

Application	Code	Name	Default Reference Columns
running/bubs	ale	bubs_afleesmethodes	id,code,omschrijving
running/bubs	ame	bubs_aggregatie_methodes	id,code,omschrijving
running/bubs	aml	bubs_ame_regels	id,aantal_eenheden,label_expressie
running/bubs	aoe	bubs_aanvragen_ojt_actie	id,seq
running/bubs	ard	bubs_ame_regels_prod	id,ame_code,aml_min_dagen,aml_max_dagen
running/bubs	atg	bubs_aanvragen_toegang	id,seq,naam
running/bubs	bce	bubs_btw_codes	id,code,omschrijving,btw_percentage
running/bubs	bee	bubs_bestand_extensies	id,code,omschrijving
running/bubs	bjb	bubs_background_jobs	id,seq,datum_start,status_ind,sessie_aangemaakt
running/bubs	bnk	bubs_banken	id,code,omschrijving
running/bubs	brt	bubs_berichten	id,seq,ontvanger
running/bubs	btn	bubs_betaaltermijnen	id,code,koppel_ind,omschrijving,aantal_dagen
running/bubs	bvd	bubs_berekende_velden	id,viw_id,naam_kolom,waarde_expressie

Create or change

Application * Select Value
Code *
Name *
Legacy Name
Default Reference Columns
Label Singular *
Label Plural *
Label Singular when Referenced *
Label Plural when Referenced *
Create ☑
Interface? ☑
Maintain History? ☑
Show History? ☐
Number of Rows
Definition *
Example *
Documentation
User May Select ☐
User May Insert ☐
User May Update ☐
User May Delete ☐
Data Category * Select Value

Table Columns (0)

No records

Name	Data Type	Nullable	Definition

Create or change

Application * Select Value
Name *
Legacy Name
Data Type * Select Value
Data Length
Data Length Type
Data Precision
Data Scale
Label Singular
Label Plural
Label Singular when Referenced
Label Plural when Referenced
Create ☑
Definition *
Example *
Added in Version * A001
Conversion
Documentation
Nullable ☐
Display in Filter ☐
Display in Search Results ☐
Display in LOV ☐
Display in Record ☐
Expression Default Value

The meaning of the entry fields for a table is:

Application	The application of which the table is part.
Code	The code with which is refered to the table. Usually, three-letter codes are used.
Name	The name of the table.
Legacy Name	The name of the table in an earlier stage.
Default Reference Columns	By default all reference columns from the table are included. If you would like you can include an other list of columns. Then, the reference columns are not included. If you use a '+' in the list of reference columns, all reference columns of the table will be included.
Label singular	The label of the table if the data is used in singular, for example 'Project'. It is also possible to use resources.
Label Plural	The label of the table if the data is used in plural, for example 'Projects'. It is also possible to use resources.
Label Singular when Referenced	Reference to resource if the data is used in singular.
Label plural when Referenced	Reference to resource if the data is used in plural.
Create	Checked in case the index must be included in the database.
Interface?	The table can be accessed via the web user interface if checked.
Maintain History?	The history of the table will be maintained if checked.
Show History	The history will be displayed if checked.
Number of Rows	The number of rows of the table.
Definition	Definition of the data visible in the table.
Example	An example of the data in the table.
Documentation	Documention about the table.
User May Select	Checked in case the application user is allowed to read data from this table.
User May Insert	Checked in case the application user is allowed to add data to this table.
User May Update	Checked in case the application user is allowed to update data from this table.
User May Delete	Checked in case the application user is allowed to delete data from this table.
Data Category	Data category of the table.

The meaning of the entry fields for a table column is:

Application	The application of which the column is part of.
Name	The name of the column.
Legacy Name	The name of the column in an earlier stage.
Data Type	The column data type.
Data Length	The maximum length of the data type.
Data Length Type	The data length type
Data Precision	The maximum number of digits in a number for a numeric data type.
Data Scale	The number of decimal places in a number.
Label singular	The label of the column if the data is used in singular.
Label Plural	The label of the column if the data is used in plural.
Label Singular when Referenced	Reference to resource if the data is used in singular.
Label plural when Referenced	Reference to resource if the data is used in plural.
Create	Checked in case the column is included in the database.
Definition	Definition of the data visible in the column.
Example	An example of the data in the column.
Add Purchase Order	Here you can indicate the sequence of the column in the table.
Conversion	Possible conversion applied to the data in the column.
Documentation	Documention concerning the column.
Nullable	The column does not need to contain a value if checked.
Show in search filter	The values of the column are displayed in the search filter if checked.
Show in search results	The values of the column are displayed in the search results if checked.

Show in value list	The values of the column are displayed in a list of values if checked.
Show in record	The values of the column are displayed in a record if checked.
Expression Default Value	

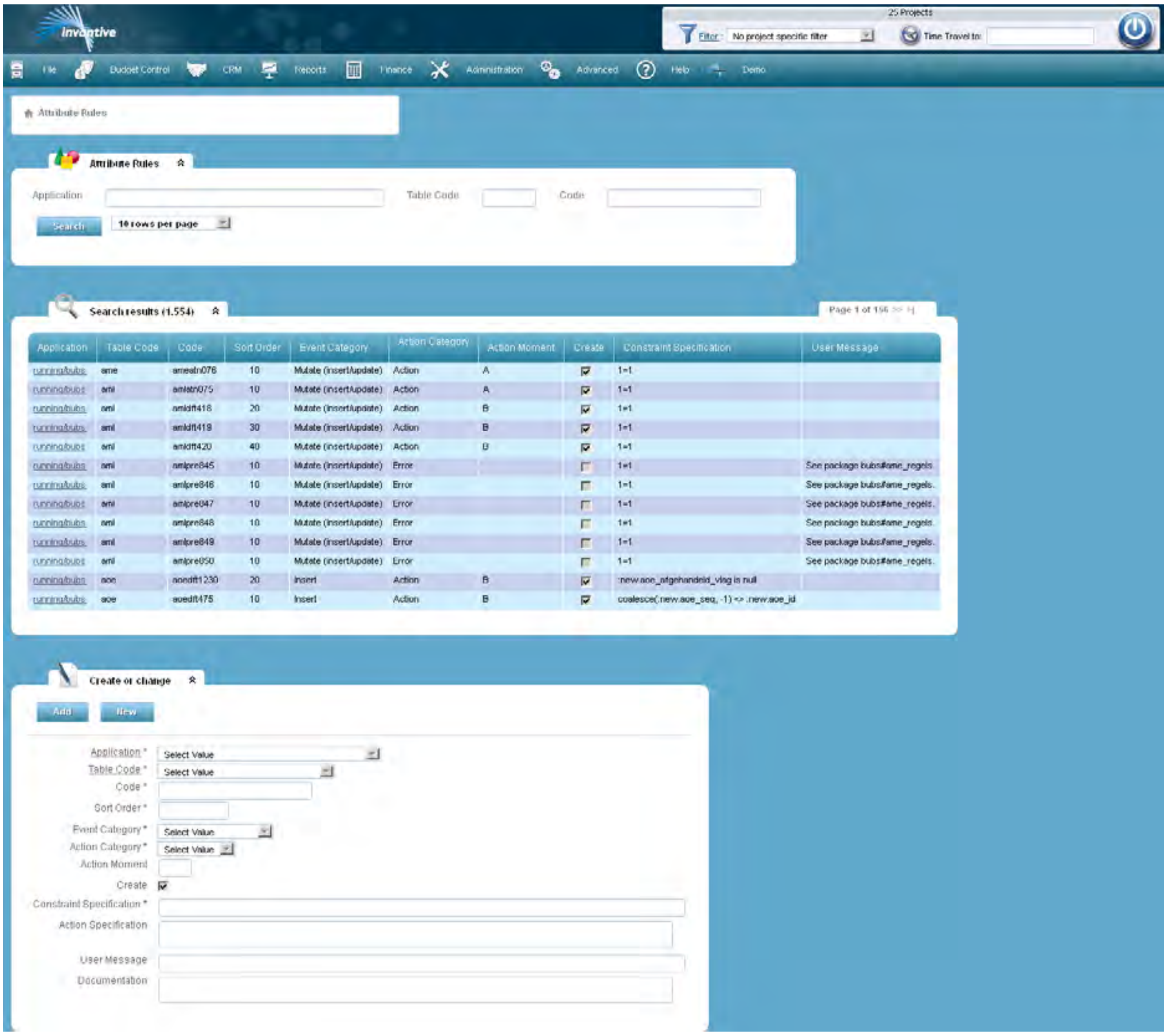
Attribute Rules

In this form you can register and change attribute rules.

An attribute rule is a specification of a business rule. There are two types of attribute rules:
- checks on validity: attribute rules that impose requirements on data to approve them. Examples are ‘the amount of the invoice line must be different than 0’ or ‘the user being the task owner must have checked the task owner flag’.
- actions: actions are pieces of programs being executed under special conditions.

Actions can be classified in two sorts of actions:
- actions being executed before a changed piece of data is stored, for example, when entering the default or constant values in fields.
- actions being executed after a changed piece of data is stored, for example, when sending an e-mail.

The registration of attribute rules is a typical activity for application developers. See the warning under Application Development 272.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Attribute Rules
Attribute Rules
Application
Table Code
Code
Search
10 rows per page
Search results (1.554)
Page 1 of 156 >> >|
Create or change
Add
New

Application	Table Code	Code	Sort Order	Event Category	Action Category	Action Moment	Create	Constraint Specification	User Message
running/bubs	ame	ameatn076	10	Mutate (insert/update)	Action	A	☑	1=1	
running/bubs	aml	amlatn075	10	Mutate (insert/update)	Action	A	☑	1=1	
running/bubs	aml	amldft418	20	Mutate (insert/update)	Action	B	☑	1=1	
running/bubs	aml	amldft419	30	Mutate (insert/update)	Action	B	☑	1=1	
running/bubs	aml	amldft420	40	Mutate (insert/update)	Action	B	☑	1=1	
running/bubs	aml	amlpre845	10	Mutate (insert/update)	Error		☐	1=1	See package bubs#ame_regels.
running/bubs	aml	amlpre846	10	Mutate (insert/update)	Error		☐	1=1	See package bubs#ame_regels.
running/bubs	aml	amlpre847	10	Mutate (insert/update)	Error		☐	1=1	See package bubs#ame_regels.
running/bubs	aml	amlpre848	10	Mutate (insert/update)	Error		☐	1=1	See package bubs#ame_regels.
running/bubs	aml	amlpre849	10	Mutate (insert/update)	Error		☐	1=1	See package bubs#ame_regels.
running/bubs	aml	amlpre850	10	Mutate (insert/update)	Error		☐	1=1	See package bubs#ame_regels.
running/bubs	aoe	aoedft1230	20	Insert	Action	B	☑	:new.aoe_afgehandeld_vlag is null	
running/bubs	aoe	aoedft475	10	Insert	Action	B	☑	coalesce(:new.aoe_seq, -1) <> :new.aoe_id	

Application * Select Value
Table Code * Select Value
Code *
Sort Order *
Event Category * Select Value
Action Category * Select Value
Action Moment
Create ☑
Constraint Specification *
Action Specification
User Message
Documentation

The meaning of the entry fields is:

Application	The application of which the attribute rule is part.
Table Code	The table and the related business view of which the attribute rule is part of.
Code	The unique code of an attribute rule.
Sort Order	A numeric value used to sort the referential rules in terms of sequence of execution.
Event Category	The sort of event that triggers the processing of the attribute rule. The following events can occur: • A: Every event (edit, add or delete) • M: Mutation (edit or delete) • I: add • U: edit • D: delete
Action Category	The action category. The following kinds of actions can occur: • E: validity check. • A: action.
Action Moment	Has meaning only if the action category 'Action' is selected. The moment on which an action is executed: before or after executing the event.
Create	Checked in case the attribute rule needs to be included in the business layer.
Constraint Specification	Limiting condition which needs to be met aside of the event category, expressed as a SQL where clause. You can refer to the table's respective row with the following texts: • ': old': the value of the row before the event (empty in case of adding). • ': new': the value of the row after the event (empty in case of deleting) • ': last': the last known value of the row (equivalent to ': new' in case of adding or changing and equal to ': old' in the case of deleting). • ': event': the type of event, with the following possible values: 'insert', 'update' and 'delete'.
Action Specification	Has meaning only if the action category 'Action' has been selected. Specification in the PL/SQL of the to be executed action. You can refer to the table's respective row with the following texts: • ': old': the value of the row before the event (empty in case of adding). • ': new': the value of the row after the event (empty in case of deleting) • ': last': the last known value of the row (equivalent to ': new' in case of adding or changing and equal to ': old' in the case of deleting). • ': event': the type of event, with the following possible values: 'insert', 'update' and 'delete'.
User Message	Has meaning only if the action category 'Validity Check' has been selected. The message which warns you, in case the row does not meet the validity check.
Documentation	Documentation of the attribute rule.

Attribute rules offer many options. Below are some examples.

Enter an amount greater or less than 0 for a contract.

Action category: E

Specification: :last.odt_bedrag_verlening is null or :last.odt_bedrag_verlening<>0

Other: None.

Only óne row of settings is allowed.

Action category: E

Specification: :last.isg_seq = 1

Other: Make a unique index on column 'seq'.

A role can only have the rights to change all projects when the role also has the rights to see all projects.

Action category: E

Specification: :last.rol_alle_prjctn_wijzigen_vlag = ‘N’ or (:last.rol_alle_prjctn_wijzigen_vlag = ‘Y’ and :last.rol_alle_prjctn_zien_vlag = ‘Y’)

Other: None.

The project type cannot be changed to Master Project in case a project has costs categories, revenues, orders, invoice rules, last estimates or contract budgets.

Action category: E

Specification: :last.pjt_projectvorm_ind in (‘S’, ‘I’) or (:last.pjt_projectvorm_ind = ‘M’ and not exists (select 1 from bubs_kostenplaatsen_v where pjt_id = :last.pjt_id))

Other: None.

This cost type prefix is used already in this master project.

Action category: E

Specification: (:last.pjt_projectvorm_ind in (‘M’, ‘I’) or (:last.pjt_projectvorm_ind = ‘S’ and not exists (/* Another subproject of the same master project with the same prefix. */ select 1 from bubs_projecten_v where pjt_projectvorm_ind =‘S’ and pjt_code <> :last.pjt_code and hpt_code = :last.hpt_code and pjt_volgnummer_prefix = :last.pjt_volgnummer_prefix)))

Other: None.

New access requests always have an open status.

Action category: A

Action moment: B

Specification: 1=1

Action specification: :new.atg_afgesloten_vlag := ‘N’;

Other: None.

Send an e-mail when a process is changed.

Action category: A

Action moment: A

Specification: 1=1

Action specification: bubs#processen.send_message(:old, :new, :last);

Other: None.

If possible, change the status of the background process from F (input parameters) to P (planned) when a parameter is updated.

Action category: A

Action moment: B

Specification: 1=1

Action specification: update bubs_background_jobs_v set bjb_status_ind='P' where 1=1 and bjb_status_ind='F' and bjb_id = :new.bjb_id;

Other: None.

Indexes

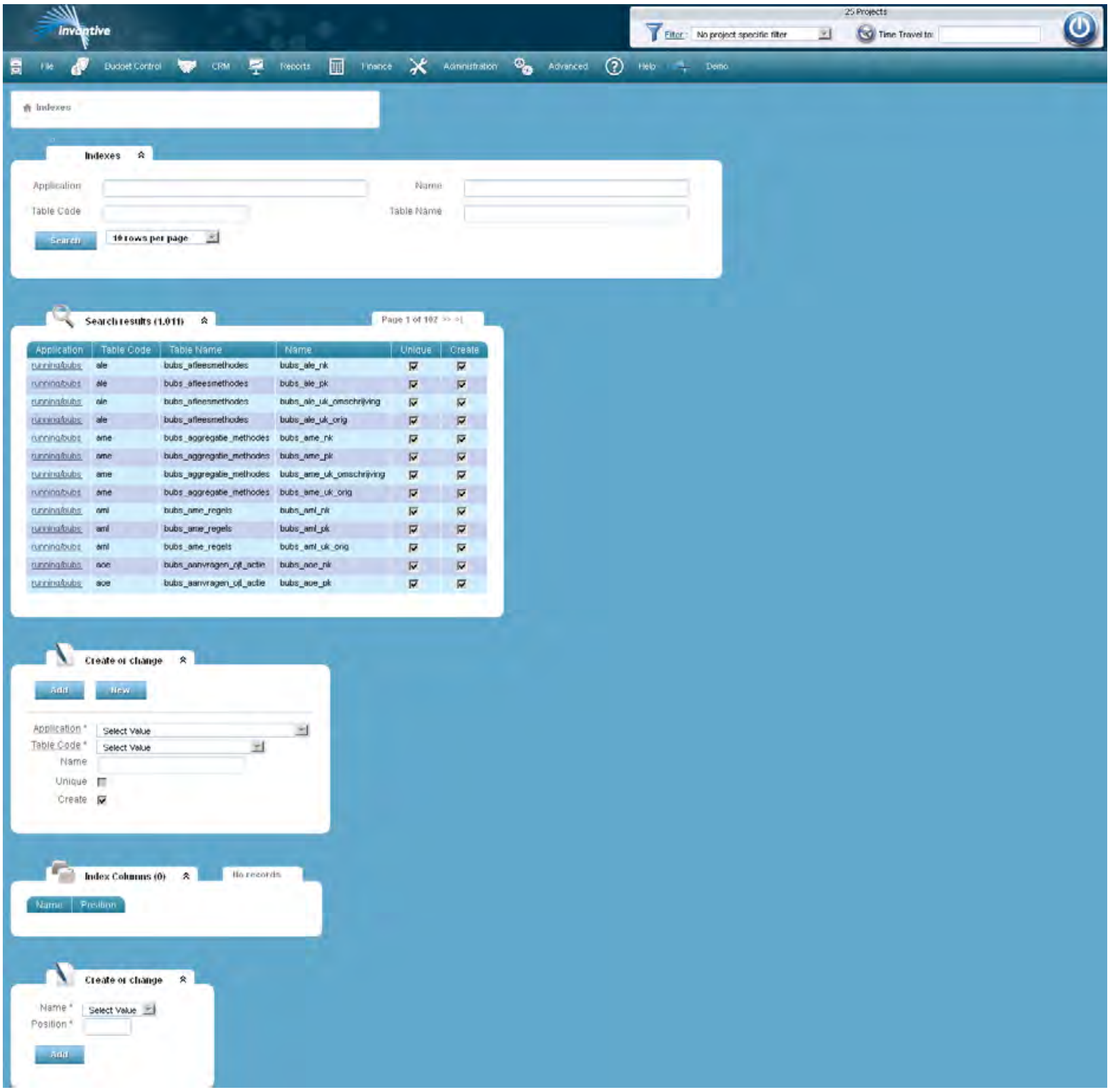
In this form you can register and change indexes.

An index is a quick access path to the data stored in a table. Multiple indexes can be uploaded per table.

There are two kinds of indexes:

- Unique indexes: act as a constraint on the table by preventing duplicate entries in the index and thus in the backing table. Unique indexes are used to protect the uniqueness of the artificial key as defined in the column 'id'. The index then has a name in the format '<application>_<table alias>_pk'. Unique indexes are also used to guarantee the unicity of the natural keys. A natural key index will have a name in the format '<application>_<table alias>_nk' for a primary unique natural key and '<application>_<table alias>_uk_<column>' for all other natural keys.
- Non-unique indexes: these are indexes used to quickly find data in a table. The most common non-unique index is the referential index: for each referential column '<table alias>_id_<possible postfix>' exists an index with the name '<application>_<table alias>_<possible postfix>'.

The registration of indexes is a typical activity for application developers. See the warning under Application Development 272.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Indexes
Indexes
Application
Name
Table Code
Table Name
Search
10 rows per page
Search results (1.011)
Page 1 of 102 >> >|
Create or change
Add
New
Index Columns (0)
No records
Name
Position
Create or change
Add

Application	Table Code	Table Name	Name	Unique	Create
running/bubs	ale	bubs_afleesmethodes	bubs_ale_nk	☑	☑
running/bubs	ale	bubs_afleesmethodes	bubs_ale_pk	☑	☑
running/bubs	ale	bubs_afleesmethodes	bubs_ale_uk_omschrijving	☑	☑
running/bubs	ale	bubs_afleesmethodes	bubs_ale_uk_orig	☑	☑
running/bubs	ame	bubs_aggregatie_methodes	bubs_ame_nk	☑	☑
running/bubs	ame	bubs_aggregatie_methodes	bubs_ame_pk	☑	☑
running/bubs	ame	bubs_aggregatie_methodes	bubs_ame_uk_omschrijving	☑	☑
running/bubs	ame	bubs_aggregatie_methodes	bubs_ame_uk_orig	☑	☑
running/bubs	aml	bubs_ame_regels	bubs_aml_nk	☑	☑
running/bubs	aml	bubs_ame_regels	bubs_aml_pk	☑	☑
running/bubs	aml	bubs_ame_regels	bubs_aml_uk_orig	☑	☑
running/bubs	aoe	bubs_aanvragen_oji_actie	bubs_aoe_nk	☑	☑
running/bubs	aoe	bubs_aanvragen_oji_actie	bubs_aoe_pk	☑	☑

Application * Select Value
Table Code * Select Value
Name
Unique ☐
Create ☑

Name * Select Value
Position *

The meaning of the entry fields for indexes is:

Application	The application of which the index is part of.
Table Code	The table of which the index is part of.
Name	The name of the index.
Unique	Checked in case the index is unique.
Create	Checked in case the index needs to be included in the database.

The meaning of the entry fields for indexes is:

Name	The name of the column.
Position	The number of the position of the column in the index.

Business Objects

In this form you can register and change views.

A view is a business object or a reporting object.

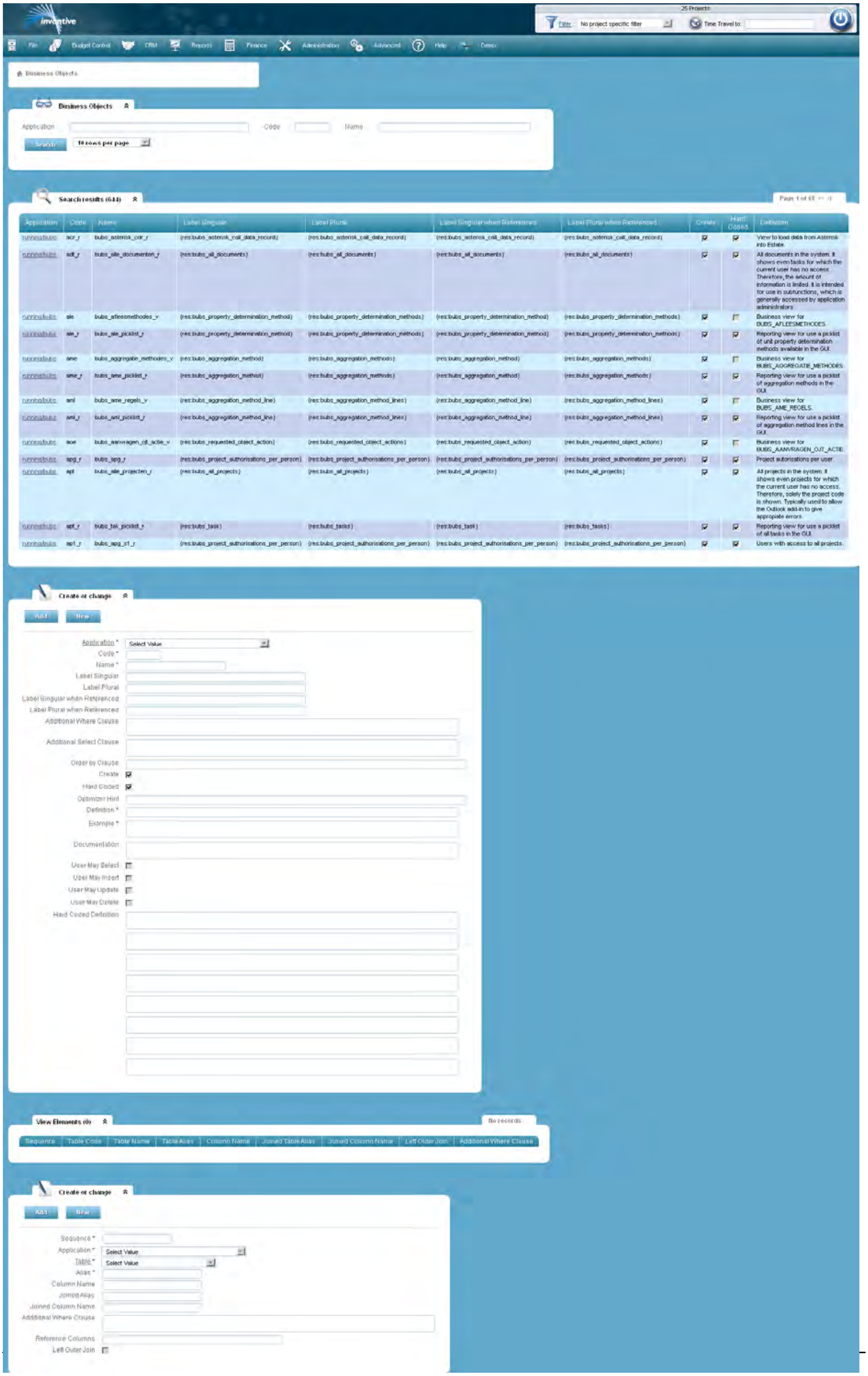
A view is a prepared collection of data from one or more tables.

There are two kind of views:

- reporting views: views only used for retrieving data. Their name is ‘<application>_<name>_r’.
- Business views: view in a logical format for organizational activities for loading and changing data. Their name is ‘<application>_<name>_v’.

Reporting views are specified as SQL text, while business views are a collection of view elements per used table.

The registration of views is a typical activity for application developers. See the warning under Application Development 272.



Business Objects

Application
Code
Name
Search
10 rows per page

Search results (644)

Page 1 of 65

Application	Code	Name	Label Singular	Label Plural	Label Singular when Referenced	Label Plural when Referenced	Create	Hard Coded	Definition
runningbubs	acr_r	bubs_asterisk_cdr_r	(res:bubs_asterisk_call_data_record)	(res:bubs_asterisk_call_data_record)	(res:bubs_asterisk_call_data_record)	(res:bubs_asterisk_call_data_record)	☑	☑	View to load data from Asterisk into Estate.
runningbubs	adt_r	bubs_alle_documenten_r	(res:bubs_all_documents)	(res:bubs_all_documents)	(res:bubs_all_documents)	(res:bubs_all_documents)	☑	☑	All documents in the system. It shows even tasks for which the current user has no access. Therefore, the amount of information is limited. It is intended for use in subfunctions, which is generally accessed by application administrators.
runningbubs	ale	bubs_afleesmethodes_v	(res:bubs_property_determination_method)	(res:bubs_property_determination_methods)	(res:bubs_property_determination_method)	(res:bubs_property_determination_methods)	☑	☐	Business view for BUBS_AFLEESMETHODES.
runningbubs	ale_r	bubs_ale_picklist_r	(res:bubs_property_determination_method)	(res:bubs_property_determination_methods)	(res:bubs_property_determination_method)	(res:bubs_property_determination_methods)	☑	☑	Reporting view for use a picklist of unit property determination methods available in the GUI.
runningbubs	ame	bubs_aggregatie_methodes_v	(res:bubs_aggregation_method)	(res:bubs_aggregation_methods)	(res:bubs_aggregation_method)	(res:bubs_aggregation_methods)	☑	☐	Business view for BUBS_AGGREGATIE_METHODES.
runningbubs	ame_r	bubs_ame_picklist_r	(res:bubs_aggregation_method)	(res:bubs_aggregation_methods)	(res:bubs_aggregation_method)	(res:bubs_aggregation_methods)	☑	☑	Reporting view for use a picklist of aggregation methods in the GUI.
runningbubs	aml	bubs_ame_regels_v	(res:bubs_aggregation_method_line)	(res:bubs_aggregation_method_lines)	(res:bubs_aggregation_method_line)	(res:bubs_aggregation_method_lines)	☑	☐	Business view for BUBS_AME_REGELS.
runningbubs	aml_r	bubs_aml_picklist_r	(res:bubs_aggregation_method_line)	(res:bubs_aggregation_method_lines)	(res:bubs_aggregation_method_line)	(res:bubs_aggregation_method_lines)	☑	☑	Reporting view for use a picklist of aggregation method lines in the GUI.
runningbubs	aoe	bubs_aanvragen_ojt_actie_v	(res:bubs_requested_object_action)	(res:bubs_requested_object_actions)	(res:bubs_requested_object_action)	(res:bubs_requested_object_actions)	☑	☐	Business view for BUBS_AANVRAGEN_OJT_ACTIE.
runningbubs	apg_r	bubs_apg_r	(res:bubs_project_authorisations_per_person)	(res:bubs_project_authorisations_per_person)	(res:bubs_project_authorisations_per_person)	(res:bubs_project_authorisations_per_person)	☑	☑	Project autorisations per user.
runningbubs	apt	bubs_alle_projecten_r	(res:bubs_all_projects)	(res:bubs_all_projects)	(res:bubs_all_projects)	(res:bubs_all_projects)	☑	☑	All projects in the system. It shows even projects for which the current user has no access. Therefore, solely the project code is shown. Typically used to allow the Outlook add-in to give appropriate errors.
runningbubs	apt_r	bubs_tsk_picklist_r	(res:bubs_task)	(res:bubs_tasks)	(res:bubs_task)	(res:bubs_tasks)	☑	☑	Reporting view for use a picklist of all tasks in the GUI.
runningbubs	ap1_r	bubs_apg_s1_r	(res:bubs_project_authorisations_per_person)	(res:bubs_project_authorisations_per_person)	(res:bubs_project_authorisations_per_person)	(res:bubs_project_authorisations_per_person)	☑	☑	Users with access to all projects.

Create or change

Add New

Application * Select Value
Code *
Name *
Label Singular
Label Plural
Label Singular when Referenced
Label Plural when Referenced
Additional Where Clause
Additional Select Clause
Order by Clause
Create ☑
Hard Coded ☑
Optimizer Hint
Definition *
Example *
Documentation
User May Select ☐
User May Insert ☐
User May Update ☐
User May Delete ☐
Hard Coded Definition

View Elements (0)

No records

Sequence	Table Code	Table Name	Table Alias	Column Name	Joined Table Alias	Joined Column Name	Left Outer Join	Additional Where Clause

Create or change

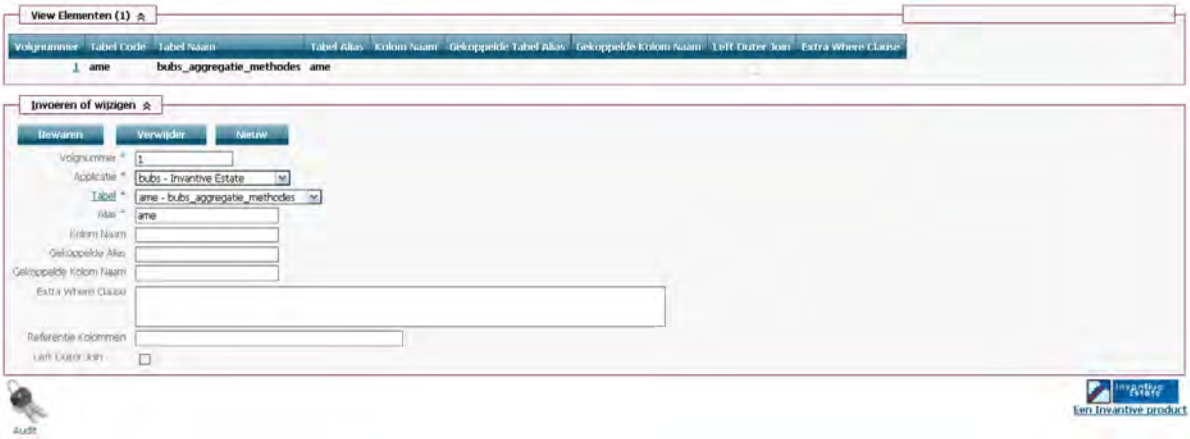
Add New

Sequence *
Application * Select Value
Table * Select Value
Alias *
Column Name
Joined Alias
Joined Column Name
Additional Where Clause
Reference Columns
Left Outer Join ☐

The meaning of the entry fields is:

Application	The application of which the view is part of.
Code	The code with which is referred to the view. Usually, three-letter codes are used.
Name	The name of the view.
Label singular	The label of the view when the data is used in singular, for example 'Project'. It is also possible to use resources.
Label Plural	The label of the view when the data is used in plural, for example 'Projects'. It is also possible to use resources.
Label Singular when Referenced	Reference to resource if the data is used in singular.
Label plural when Referenced	Reference to resource if the data is used in plural.
Additional Where Clause	An extra limitation to the data visible in the view. In the format of a 'SQL where clause'.
Additional Select Clause	An extra list of columns, expressed as SQL, available in the column list of the view..
Order by Clause	An ordering of the data in the view. Expressed as SQL. Do mind: use the 'order by clause' for simple views only. Applying this to complex views might lead to performance reduction.
Create	Checked in case the view needs to be included in the database.
Hard Coded	
Optimizer Hint	A hint for the view, expressed in SQL.
Definition	Definition of the data visible in the view..
Example	An example of the data in the view.
Documentation	Documentation concerning the view.
User May Select	Checked in case the application user is allowed to read data from this view.
User May Insert	Checked in case the application user is allowed to add data from this view.
User May Update	Checked in case the application user is allowed to update data from this view.
User May Delete	Checked in case the application user is allowed to delete data from the view.
Hard Coded Definition	The possible hard coded definition. Only for reporting views. For business views use view elements (see below).

A business view can consist of multiple view elements, whereby each view element will be a table or a 'pseudo table' for a report view that will be joined in the business object:


View Elementen (1)

Volgnummer	Tabel Code	Tabel Naam	Tabel Alias	Kolom Naam	Gekoppelde Tabel Alias	Gekoppelde Kolom Naam	Left Outer Join	Extra Where Clause
1	ame	bubs_aggregatie_methodes	ame					

Invoeren of wijzigen

Volgnummer *: 1
Applicatie *: bubs - Invantive Estate
Tabel *: ame - bubs_aggregatie_methodes
Alias *: ame
Kolom Naam:
Gekoppelde Alias:
Gekoppelde Kolom Naam:
Extra Where Clause:
Referentie Kolommen:
Left Outer Join: ☐

Sequence	A view consists of several view elements. The sequence indicates on what position the view element is included in the view. Usually, the base table gets the lowest sequence.
Application	The application of which the view element is part of.
Table	The name of the table forming the view element.
Alias	The alias for the data in the table. Usually this will be the same as the table alias, but in case a table is used in more locations in a business view, every location will get a different alias.

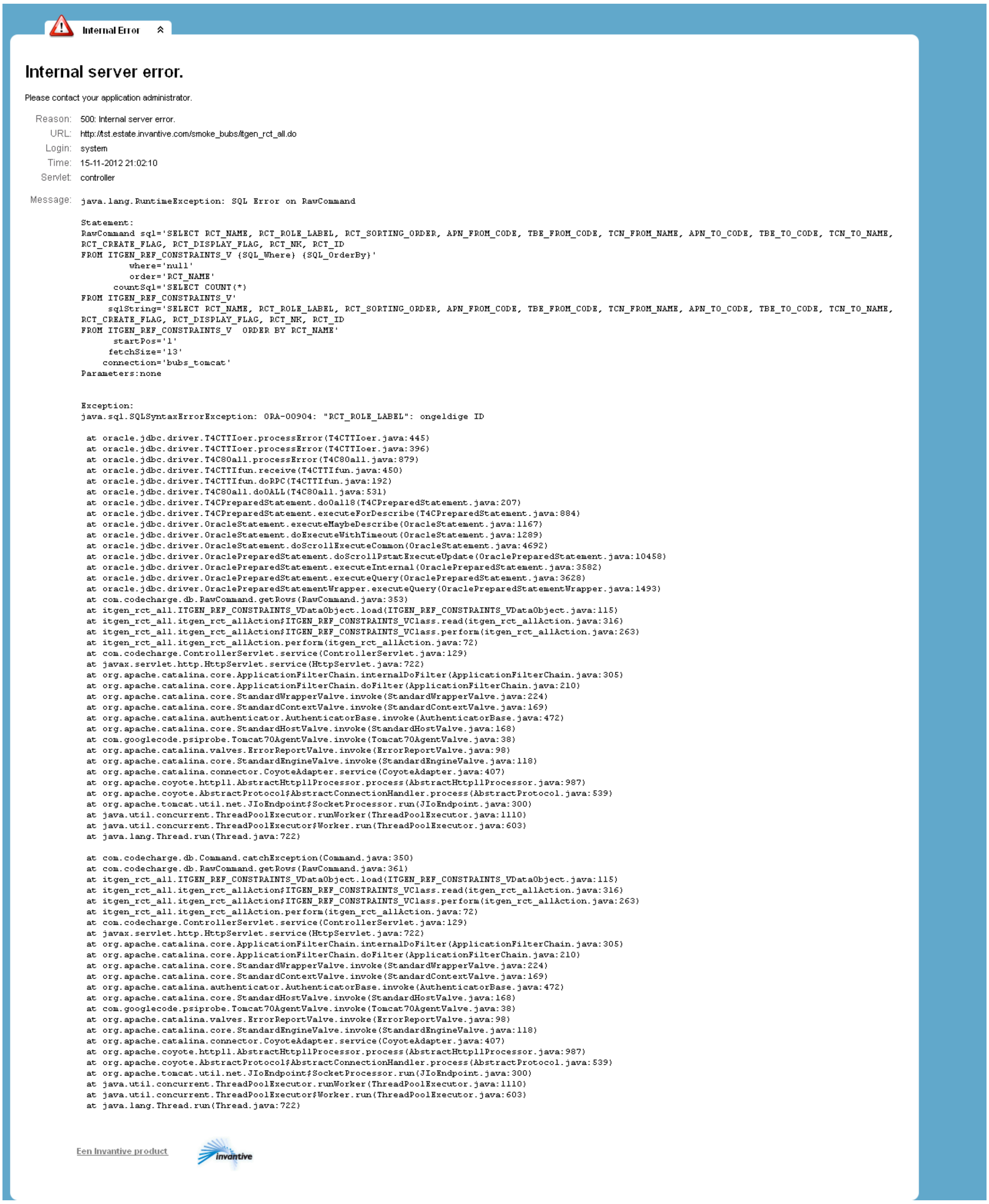
Column Name	The name of the column on which the join is built.
Joined Alias	The alias of the table with which the view element is joined.
Joined Column Name	The name of the column used to make the join.
Additional Where Clause	An extra where clause, expressed in SQL.
Reference Columns	By default all reference columns from the table are included. If you would like you can include an other list of columns. Then, the reference columns are not included. If you use a '+' in the list of reference columns, all reference columns of the table will be included.
Left outer join	Checked if a left outer join should be used.

Referential Constraints

This screen lets you record and referential rules change.

A referential constraint is a connection between the data in two tables.

The registration of referential constraints is typically an activity for application developers. See the warning under Application Development 272.



Internal server error.

Please contact your application administrator.

Reason: 500: Internal server error.
URL: http://tst.estate.invantive.com/smoke_bubs/itgen_rct_all.do
Login: system
Time: 15-11-2012 21:02:10
Servlet: controller

Message:

```
java.lang.RuntimeException: SQL Error on RawCommand

Statement:
RawCommand sql='SELECT RCT_NAME, RCT_ROLE_LABEL, RCT_SORTING_ORDER, APN_FROM_CODE, TBE_FROM_CODE, TCN_FROM_NAME, APN_TO_CODE, TBE_TO_CODE, TCN_TO_NAME,
RCT_CREATE_FLAG, RCT_DISPLAY_FLAG, RCT_NK, RCT_ID
FROM ITGEN_REF_CONSTRAINTS_V {SQL_Where} {SQL_OrderBy}'
         where='null'
         order='RCT_NAME'
      countSql='SELECT COUNT(*)
FROM ITGEN_REF_CONSTRAINTS_V'
     sqlString='SELECT RCT_NAME, RCT_ROLE_LABEL, RCT_SORTING_ORDER, APN_FROM_CODE, TBE_FROM_CODE, TCN_FROM_NAME, APN_TO_CODE, TBE_TO_CODE, TCN_TO_NAME,
RCT_CREATE_FLAG, RCT_DISPLAY_FLAG, RCT_NK, RCT_ID
FROM ITGEN_REF_CONSTRAINTS_V  ORDER BY RCT_NAME'
      startPos='1'
     fetchSize='13'
    connection='bubs_tomcat'
Parameters:none


Exception:
java.sql.SQLSyntaxErrorException: ORA-00904: "RCT_ROLE_LABEL": ongeldige ID

 at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:445)
 at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:396)
 at oracle.jdbc.driver.T4C8Oall.processError(T4C8Oall.java:879)
 at oracle.jdbc.driver.T4CTTIfun.receive(T4CTTIfun.java:450)
 at oracle.jdbc.driver.T4CTTIfun.doRPC(T4CTTIfun.java:192)
 at oracle.jdbc.driver.T4C8Oall.doOALL(T4C8Oall.java:531)
 at oracle.jdbc.driver.T4CPreparedStatement.doOall8(T4CPreparedStatement.java:207)
 at oracle.jdbc.driver.T4CPreparedStatement.executeForDescribe(T4CPreparedStatement.java:884)
 at oracle.jdbc.driver.OracleStatement.executeMaybeDescribe(OracleStatement.java:1167)
 at oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:1289)
 at oracle.jdbc.driver.OracleStatement.doScrollExecuteCommon(OracleStatement.java:4692)
 at oracle.jdbc.driver.OraclePreparedStatement.doScrollPstmtExecuteUpdate(OraclePreparedStatement.java:10458)
 at oracle.jdbc.driver.OraclePreparedStatement.executeInternal(OraclePreparedStatement.java:3582)
 at oracle.jdbc.driver.OraclePreparedStatement.executeQuery(OraclePreparedStatement.java:3628)
 at oracle.jdbc.driver.OraclePreparedStatementWrapper.executeQuery(OraclePreparedStatementWrapper.java:1493)
 at com.codecharge.db.RawCommand.getRows(RawCommand.java:353)
 at itgen_rct_all.ITGEN_REF_CONSTRAINTS_VDataObject.load(ITGEN_REF_CONSTRAINTS_VDataObject.java:115)
 at itgen_rct_all.itgen_rct_allAction$ITGEN_REF_CONSTRAINTS_VClass.read(itgen_rct_allAction.java:316)
 at itgen_rct_all.itgen_rct_allAction$ITGEN_REF_CONSTRAINTS_VClass.perform(itgen_rct_allAction.java:263)
 at itgen_rct_all.itgen_rct_allAction.perform(itgen_rct_allAction.java:72)
 at com.codecharge.ControllerServlet.service(ControllerServlet.java:129)
 at javax.servlet.http.HttpServlet.service(HttpServlet.java:722)
 at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:305)
 at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
 at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:224)
 at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:169)
 at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:472)
 at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:168)
 at com.googlecode.psiprobe.Tomcat70AgentValve.invoke(Tomcat70AgentValve.java:38)
 at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:98)
 at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
 at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:407)
 at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:987)
 at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:539)
 at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:300)
 at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)
 at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)
 at java.lang.Thread.run(Thread.java:722)

 at com.codecharge.db.Command.catchException(Command.java:350)
 at com.codecharge.db.RawCommand.getRows(RawCommand.java:361)
 at itgen_rct_all.ITGEN_REF_CONSTRAINTS_VDataObject.load(ITGEN_REF_CONSTRAINTS_VDataObject.java:115)
 at itgen_rct_all.itgen_rct_allAction$ITGEN_REF_CONSTRAINTS_VClass.read(itgen_rct_allAction.java:316)
 at itgen_rct_all.itgen_rct_allAction$ITGEN_REF_CONSTRAINTS_VClass.perform(itgen_rct_allAction.java:263)
 at itgen_rct_all.itgen_rct_allAction.perform(itgen_rct_allAction.java:72)
 at com.codecharge.ControllerServlet.service(ControllerServlet.java:129)
 at javax.servlet.http.HttpServlet.service(HttpServlet.java:722)
 at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:305)
 at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
 at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:224)
 at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:169)
 at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:472)
 at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:168)
 at com.googlecode.psiprobe.Tomcat70AgentValve.invoke(Tomcat70AgentValve.java:38)
 at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:98)
 at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
 at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:407)
 at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:987)
 at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:539)
 at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:300)
 at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)
 at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)
 at java.lang.Thread.run(Thread.java:722)
```

Een Invantive product

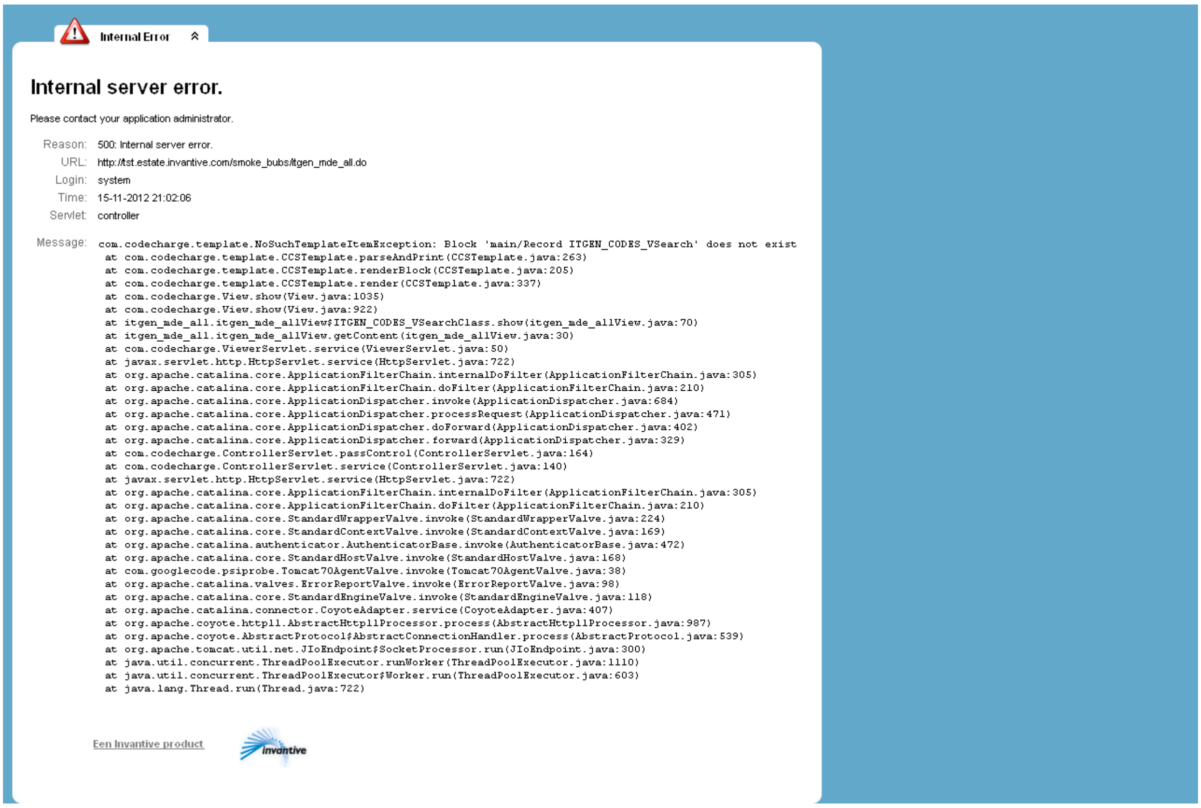
The meaning of the entry fields is:

Name	The name of the referential constraint.
Role	The role of the referential constraint in case there are multiple referential constraints between two tables.
Sort Order	A numeric value used for sorting the referential constraints when they are shown in a list box in a screen. This functionality is not supported yet.
From	
Application	The application of which the from column is part of.
Table	The name of the table of which the from column is part of.
Column	The name of the column.

To	
Application	The application of which the to column is part of.
Table	The name of the table of which the to column is part of.
Column	The name of the to column.
Create	Checked if the referential constraint needs to be included in the database.
Show	Checked if the referential constraint needs to be displayed in the database. This functionality is not supported yet.
Documentation	Documentation of the referential constraint.

Modules

In this screen you can register and change modules..



Internal server error.

Please contact your application administrator.

Reason: 500: Internal server error.
URL: http://tst.estate.invantive.com/smoke_bubs/itgen_mde_all.do
Login: system
Time: 15-11-2012 21:02:06
Servlet: controller

Message:

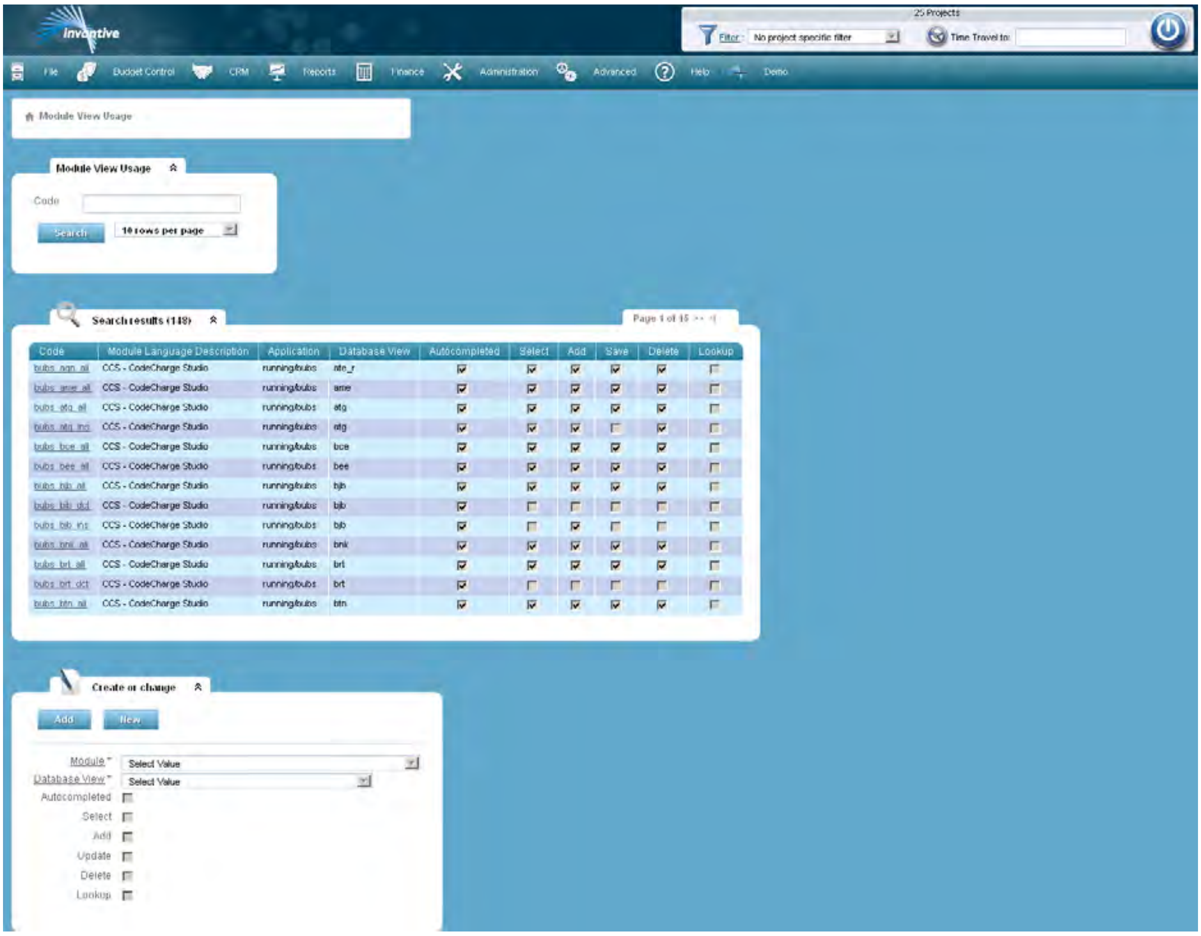
```
com.codecharge.template.NoSuchTemplateItemException: Block 'main/Record ITGEN_CODES_VSearch' does not exist
 at com.codecharge.template.CCSTemplate.parseAndPrint(CCSTemplate.java:263)
 at com.codecharge.template.CCSTemplate.renderBlock(CCSTemplate.java:205)
 at com.codecharge.template.CCSTemplate.render(CCSTemplate.java:337)
 at com.codecharge.View.show(View.java:1035)
 at com.codecharge.View.show(View.java:922)
 at itgen_mde_all.itgen_mde_allView$ITGEN_CODES_VSearchClass.show(itgen_mde_allView.java:70)
 at itgen_mde_all.itgen_mde_allView.getContent(itgen_mde_allView.java:30)
 at com.codecharge.ViewerServlet.service(ViewerServlet.java:50)
 at javax.servlet.http.HttpServlet.service(HttpServlet.java:722)
 at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:305)
 at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
 at org.apache.catalina.core.ApplicationDispatcher.invoke(ApplicationDispatcher.java:684)
 at org.apache.catalina.core.ApplicationDispatcher.processRequest(ApplicationDispatcher.java:471)
 at org.apache.catalina.core.ApplicationDispatcher.doForward(ApplicationDispatcher.java:402)
 at org.apache.catalina.core.ApplicationDispatcher.forward(ApplicationDispatcher.java:329)
 at com.codecharge.ControllerServlet.passControl(ControllerServlet.java:164)
 at com.codecharge.ControllerServlet.service(ControllerServlet.java:140)
 at javax.servlet.http.HttpServlet.service(HttpServlet.java:722)
 at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:305)
 at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
 at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:224)
 at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:169)
 at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:472)
 at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:168)
 at com.googlecode.psiprobe.Tomcat70AgentValve.invoke(Tomcat70AgentValve.java:38)
 at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:98)
 at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
 at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:407)
 at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:987)
 at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:539)
 at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:300)
 at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)
 at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)
 at java.lang.Thread.run(Thread.java:722)
```

The meaning of the entry fields is:

Application	The application of which the module is part of.
Module Language	The programming language of the module.
Code	The code used to refer to the module.
Description	Description of the module.
Legacy Name	The name of the module in an earlier stage.
Autocompleted	Checked if the module autocompletes missing data.
Create	Checked in case the module must be included in the database.

Module View Usage

In this screen you can register and change modules for view usage..



Module View Usage

Module View Usage

Code

Search | 10 rows per page

Search results (148)

Page 1 of 15

Code	Module Language Description	Application	Database View	Autocompleted	Select	Add	Save	Delete	Lookup
bubs_agn_all	CCS - CodeCharge Studio	running/bubs	ate_r	☑	☑	☑	☑	☑	☐
bubs_ame_all	CCS - CodeCharge Studio	running/bubs	ame	☑	☑	☑	☑	☑	☐
bubs_atg_all	CCS - CodeCharge Studio	running/bubs	atg	☑	☑	☑	☑	☑	☐
bubs_atg_ins	CCS - CodeCharge Studio	running/bubs	atg	☑	☑	☑	☐	☑	☐
bubs_bce_all	CCS - CodeCharge Studio	running/bubs	bce	☑	☑	☑	☑	☑	☐
bubs_bee_all	CCS - CodeCharge Studio	running/bubs	bee	☑	☑	☑	☑	☑	☐
bubs_bjb_all	CCS - CodeCharge Studio	running/bubs	bjb	☑	☑	☑	☑	☑	☐
bubs_bjb_dcl	CCS - CodeCharge Studio	running/bubs	bjb	☑	☐	☐	☐	☐	☐
bubs_bjb_ins	CCS - CodeCharge Studio	running/bubs	bjb	☑	☐	☑	☐	☐	☐
bubs_bnk_all	CCS - CodeCharge Studio	running/bubs	bnk	☑	☑	☑	☑	☑	☐
bubs_brt_all	CCS - CodeCharge Studio	running/bubs	brt	☑	☑	☑	☑	☑	☐
bubs_brt_dcl	CCS - CodeCharge Studio	running/bubs	brt	☑	☐	☐	☐	☐	☐
bubs_btn_all	CCS - CodeCharge Studio	running/bubs	btn	☑	☑	☑	☑	☑	☐

Create or change

Add | New

Module *	Select Value
Database View *	Select Value
Autocompleted	☐
Select	☐
Add	☐
Update	☐
Delete	☐
Lookup	☐

The meaning of the entry fields is:

Module	The name of the to module.
View	The view used by the module.
Autocompleted	Checked if the module autocompletes missing data.
Select	Checked in case the application user is allowed to select data via this module.
Add	Checked in case the application user is allowed to add data via this module.
Update	Checked in case the application user is allowed to update data via this module.
Delete	Checked in case the application user is allowed to delete data via this module.
Opzoeken	Checked in case the application user is allowed to lookup data via this module.

The meaning of the other fields:

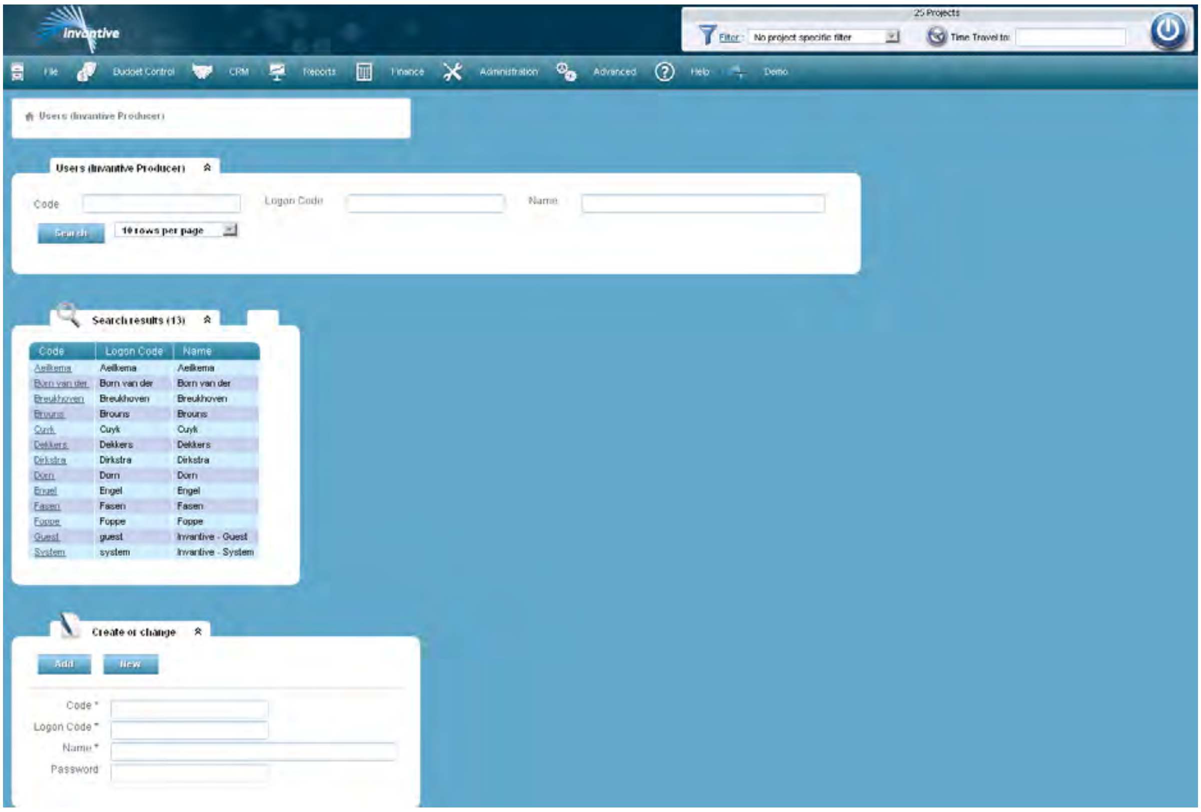
Code	The code used to refer to the module.
Module Language Description	The programming language of the module.
Application	The application of which the module is part of.

Users (Invantive Producer)

In this form you can register and change the users of Invantive Producer.

Users of Invantive Producer are different than users in Invantive Estate. You cannot log on as user of Invantive Producer. In order to do this you first need to relate a user in Invantive Estate to a user of Invantive Producer. See Users 97.

The registration of Invantive Producer users is typically an activity for application developers. See the warning under Application Development 272.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Users (Invantive Producer)
Users (Invantive Producer)
Code
Logon Code
Name
Search
10 rows per page
Search results (13)
Create or change
Add
New
Code *
Logon Code *
Name *
Password

Code	Logon Code	Name
Aeilkema	Aeilkema	Aeilkema
Born van der	Born van der	Born van der
Breukhoven	Breukhoven	Breukhoven
Brouns	Brouns	Brouns
Cuyk	Cuyk	Cuyk
Dekkers	Dekkers	Dekkers
Dirkstra	Dirkstra	Dirkstra
Dorn	Dorn	Dorn
Engel	Engel	Engel
Fasen	Fasen	Fasen
Foppe	Foppe	Foppe
Guest	guest	Invantive - Guest
System	system	Invantive - System

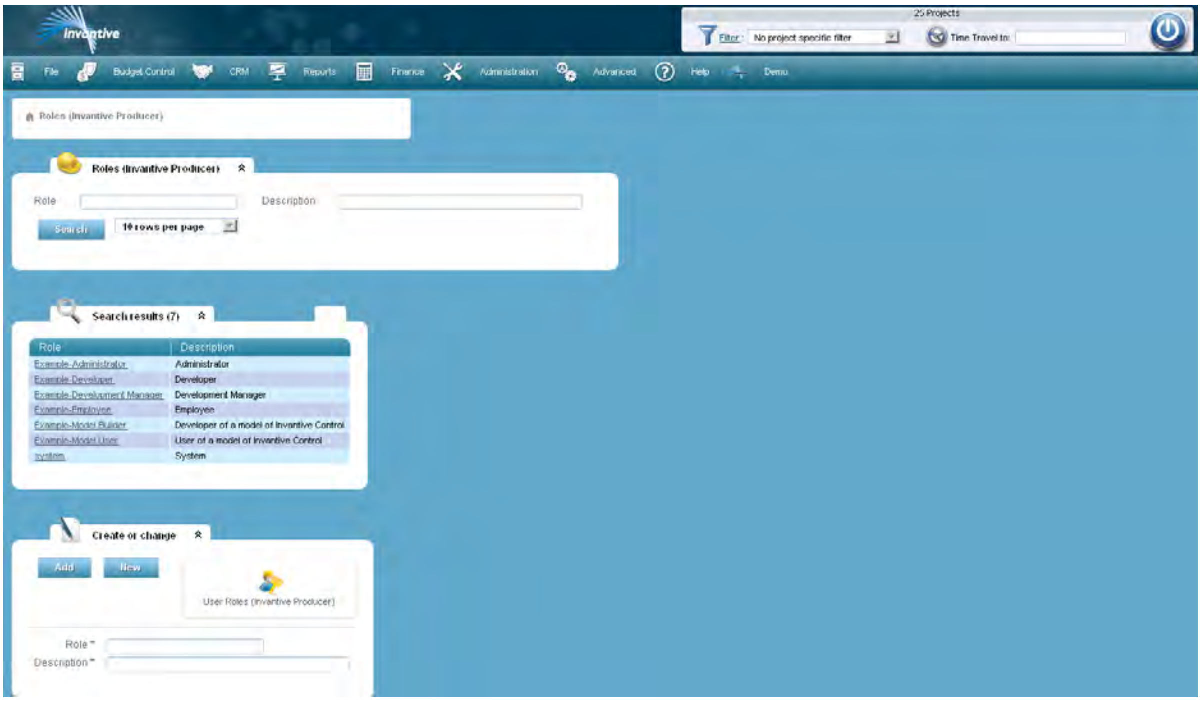
The meaning of the entry fields is:

Code	The code used to refer to the user.
Username	The name used to identify the user.
Name	The full name of the user.

Roles (Invantive Producer)

In this screen you can register and change the roles of Invantive Producer.

A role is a function within an organization (for example ‘Project Developer’) that can be performed by a person. Rights can be assigned to this role with Role Functions 298 and next this role can be assigned to users that are going to perform the function with User Roles 299.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Roles (Invantive Producer)
Roles (Invantive Producer)
Role
Description
Search
10 rows per page
Search results (7)
Create or change
Add
New
User Roles (Invantive Producer)
Role *
Description *

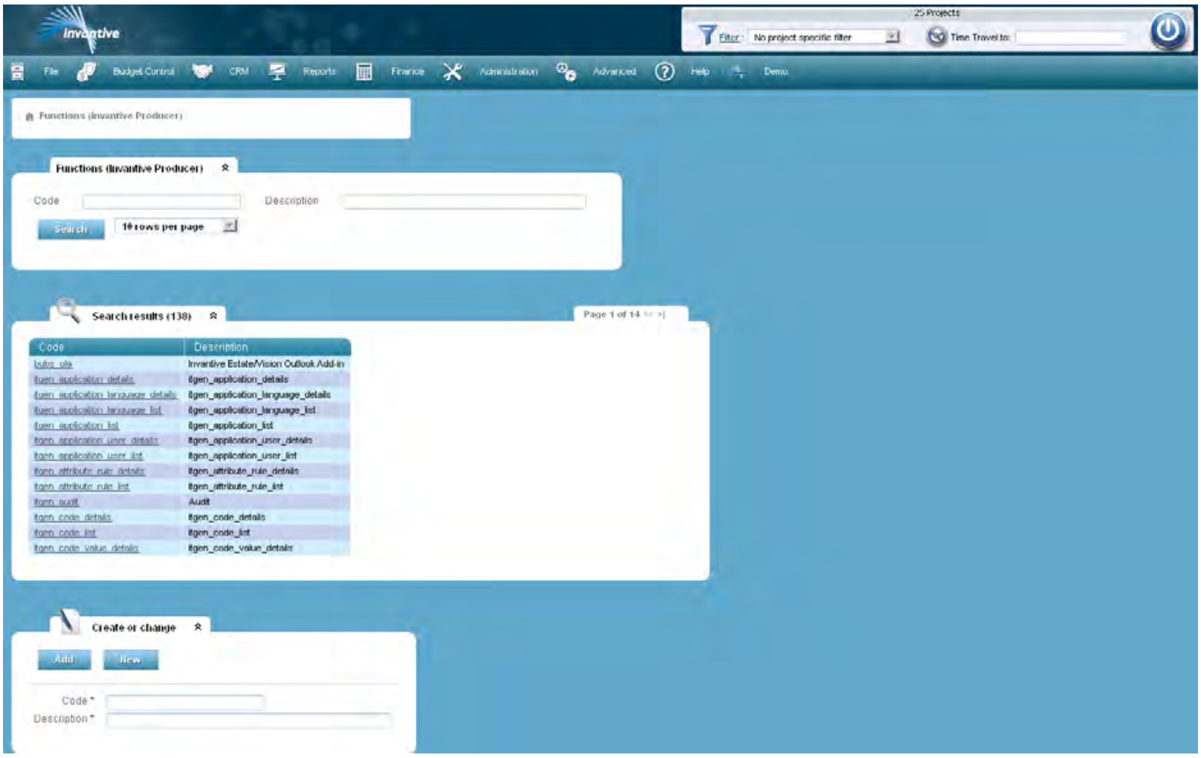
Role	Description
Example-Administrator	Administrator
Example-Developer	Developer
Example-Development Manager	Development Manager
Example-Employee	Employee
Example-Model Builder	Developer of a model of Invantive Control
Example-Model User	User of a model of Invantive Control
system	System

The meaning of the entry fields is:

Role	The code of the role.
Description	The description.

Functions (Invantive Producer)

In this screen you can register and change the functions of Invantive Producer.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Functions (Invantive Producer)
Functions (Invantive Producer)
Code
Description
Search
10 rows per page
Search results (138)
Page 1 of 14
Create or change
Add
New
Code *
Description *

Code	Description
bubs_ole	Invantive Estate/Vision Outlook Add-in
itgen_application_details	itgen_application_details
itgen_application_language_details	itgen_application_language_details
itgen_application_language_list	itgen_application_language_list
itgen_application_list	itgen_application_list
itgen_application_user_details	itgen_application_user_details
itgen_application_user_list	itgen_application_user_list
itgen_attribute_rule_details	itgen_attribute_rule_details
itgen_attribute_rule_list	itgen_attribute_rule_list
itgen_audit	Audit
itgen_code_details	itgen_code_details
itgen_code_list	itgen_code_list
itgen_code_value_details	itgen_code_value_details

The meaning of the entry fields is:

Code	The code of the function.

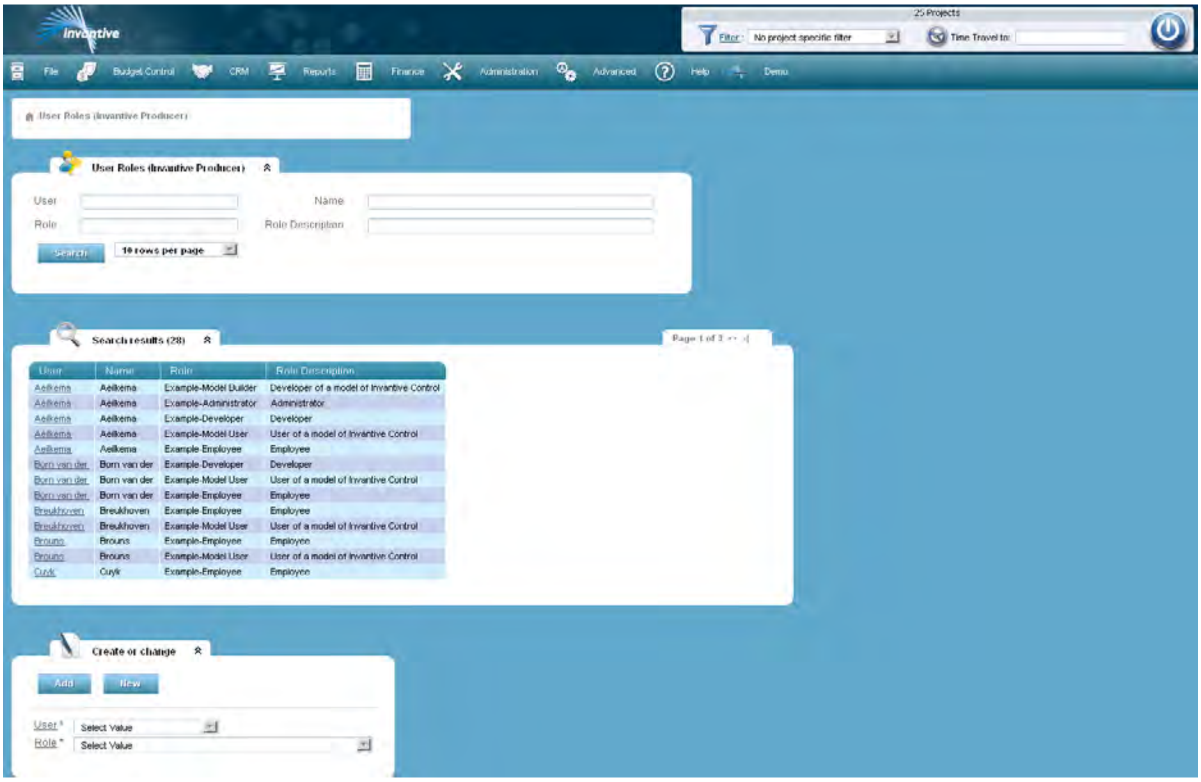
Description	The description.

User Roles (Invantive Producer)

In this form you can register and change the roles of Invantive Producer..

A user with a role, subsequently has all rights that belong to the role as defined in the screen Role Functions 299 and Roles 297. The user roles also define which Menu Items 225 a user could see.

When implementing Invantive Estate you can directly use the example roles included in Invantive Estate. However, it is preferred to copy these roles. Example roles can be identified by the prefix ‘Example’ in the role code.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
User Roles (Invantive Producer)
User Roles (Invantive Producer)
User
Name
Role
Role Description
Search
10 rows per page
Search results (28)
Page 1 of 3
Create or change
Add
New
User *
Role *
Select Value
Select Value

User	Name	Role	Role Description
Aeikema	Aeikema	Example-Model Builder	Developer of a model of Invantive Control
Aeikema	Aeikema	Example-Administrator	Administrator
Aeikema	Aeikema	Example-Developer	Developer
Aeikema	Aeikema	Example-Model User	User of a model of Invantive Control
Aeikema	Aeikema	Example-Employee	Employee
Born van der	Born van der	Example-Developer	Developer
Born van der	Born van der	Example-Model User	User of a model of Invantive Control
Born van der	Born van der	Example-Employee	Employee
Breukhoven	Breukhoven	Example-Employee	Employee
Breukhoven	Breukhoven	Example-Model User	User of a model of Invantive Control
Brouns	Brouns	Example-Employee	Employee
Brouns	Brouns	Example-Model User	User of a model of Invantive Control
Cuyk	Cuyk	Example-Employee	Employee

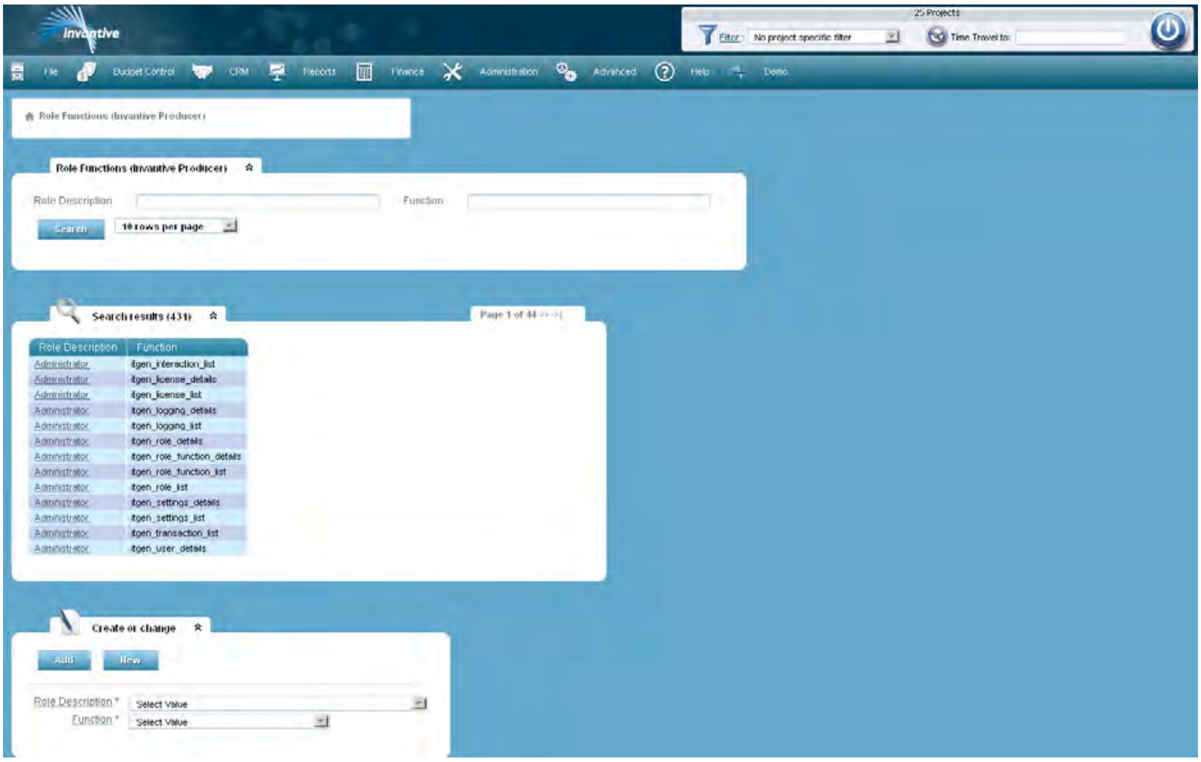
The meaning of the entry fields is:

Name	The name of the user.
Role	The role assigned.

Role Functions (Invantive Producer)

In this screen you can register and change the role authorisations of Invantive Producer.

A role authorisation is a link between a role and a screen or report. A user with this role subsequently has access to the form or report. Moreover, the user can change the data if editing rights have been granted.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Search
10 rows per page
Page 1 of 44
Add
New

Role Functions (Invantive Producer)

Role Functions (Invantive Producer)

Role Description
Function

Search results (431)

Role Description	Function
Administrator	itgen_interaction_list
Administrator	itgen_license_details
Administrator	itgen_license_list
Administrator	itgen_logging_details
Administrator	itgen_logging_list
Administrator	itgen_role_details
Administrator	itgen_role_function_details
Administrator	itgen_role_function_list
Administrator	itgen_role_list
Administrator	itgen_settings_details
Administrator	itgen_settings_list
Administrator	itgen_transaction_list
Administrator	itgen_user_details

Create or change

Role Description * Select Value
Function * Select Value

The meaning of the entry fields is:

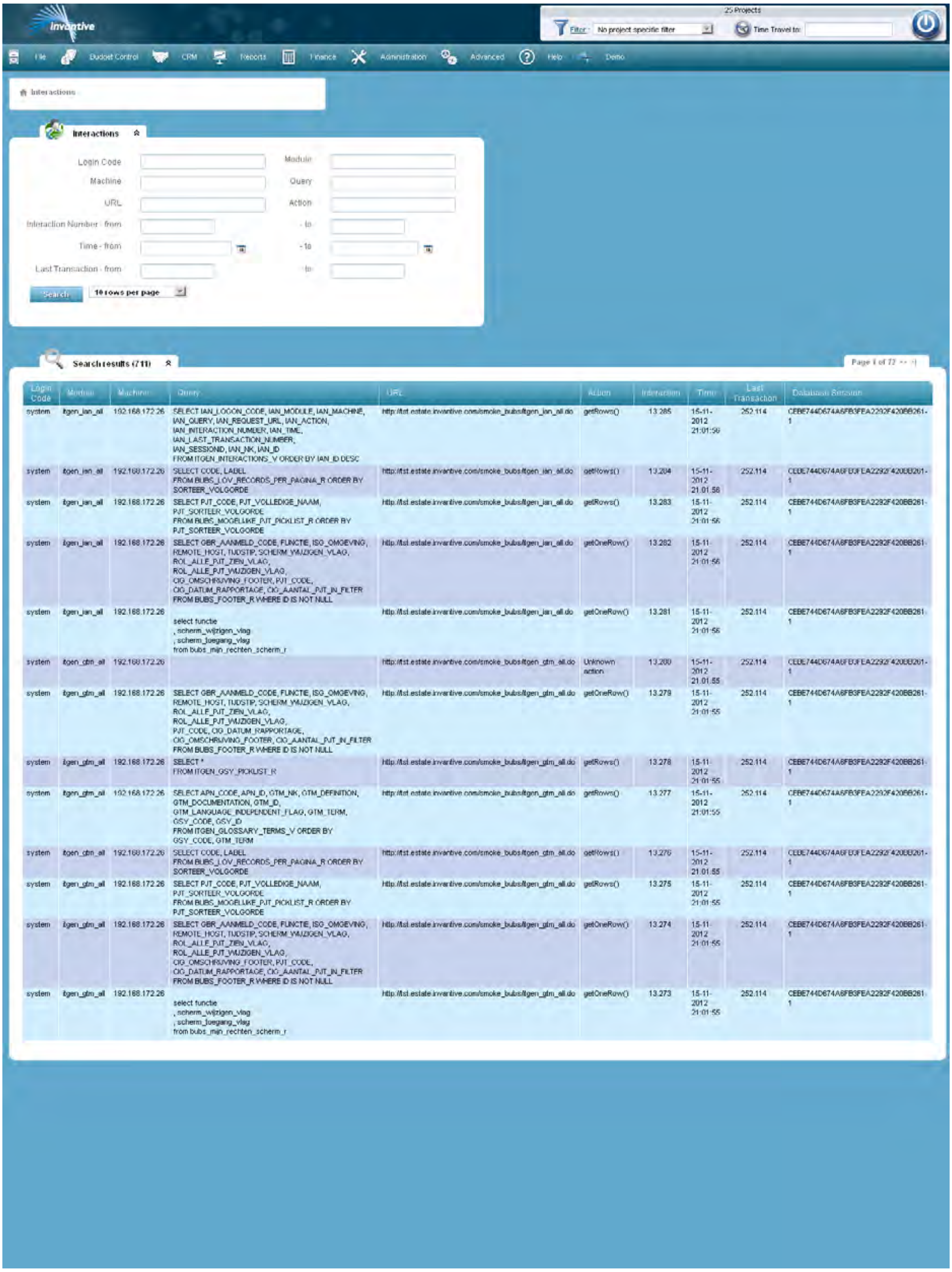
Role Description	The role.
Function	The function (form or report).

Interactions

In this screen you can see the interactions with Invantive Producer.

An interaction is an activity a user executes with Invantive Producer. This usually is requesting data via a screen.

With each interaction it is recorded by whom (logon code), when (point in time), in what screen (module), from which PC (machine), which action (query) was executed. Moreover, an ascending interaction number is assigned. Finally, each interaction refers to the last assigned transaction number, so that a chronological dependency between transactions and interactions can be made to determine what information was available at the time of the request. The list ends with the characteristic of the session.



Login Code	Module	Machine	Query	URL	Action	Interaction	Time	Last Transaction	Database Session
system	itgen_ian_all	192.168.172.26	SELECT IAN_LOGON_CODE, IAN_MODULE, IAN_MACHINE, IAN_QUERY, IAN_REQUEST_URL, IAN_ACTION, IAN_INTERACTION_NUMBER, IAN_TIME, IAN_LAST_TRANSACTION_NUMBER, IAN_SESSIONID, IAN_NK, IAN_ID FROM ITGEN_INTERACTIONS_V ORDER BY IAN_ID DESC	http://tst.estate.invantive.com/smoke_bubs/itgen_ian_all.do	getRows()	13.285	15-11-2012 21:01:56	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_ian_all	192.168.172.26	SELECT CODE, LABEL FROM BUBS_LOV_RECORDS_PER_PAGINA_R ORDER BY SORTEER_VOLGORDE	http://tst.estate.invantive.com/smoke_bubs/itgen_ian_all.do	getRows()	13.284	15-11-2012 21:01:56	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_ian_all	192.168.172.26	SELECT PJT_CODE, PJT_VOLLEDIGE_NAAM, PJT_SORTEER_VOLGORDE FROM BUBS_MOGELIJKE_PJT_PICKLIST_R ORDER BY PJT_SORTEER_VOLGORDE	http://tst.estate.invantive.com/smoke_bubs/itgen_ian_all.do	getRows()	13.283	15-11-2012 21:01:56	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_ian_all	192.168.172.26	SELECT GBR_AANMELD_CODE, FUNCTIE, ISG_OMGEVING, REMOTE_HOST, TIJDSTIP, SCHERM_WIJZIGEN_VLAG, ROL_ALLE_PJT_ZIEN_VLAG, ROL_ALLE_PJT_WIJZIGEN_VLAG, CIG_OMSCHRIJVING_FOOTER, PJT_CODE, CIG_DATUM_RAPPORTAGE, CIG_AANTAL_PJT_IN_FILTER FROM BUBS_FOOTER_R WHERE ID IS NOT NULL	http://tst.estate.invantive.com/smoke_bubs/itgen_ian_all.do	getOneRow()	13.282	15-11-2012 21:01:56	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_ian_all	192.168.172.26	select functie , scherm_wijzigen_vlag , scherm_toegang_vlag from bubs_mijn_rechten_scherm_r	http://tst.estate.invantive.com/smoke_bubs/itgen_ian_all.do	getOneRow()	13.281	15-11-2012 21:01:56	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_gtm_all	192.168.172.26		http://tst.estate.invantive.com/smoke_bubs/itgen_gtm_all.do	Unknown action	13.280	15-11-2012 21:01:55	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_gtm_all	192.168.172.26	SELECT GBR_AANMELD_CODE, FUNCTIE, ISG_OMGEVING, REMOTE_HOST, TIJDSTIP, SCHERM_WIJZIGEN_VLAG, ROL_ALLE_PJT_ZIEN_VLAG, ROL_ALLE_PJT_WIJZIGEN_VLAG, PJT_CODE, CIG_DATUM_RAPPORTAGE, CIG_OMSCHRIJVING_FOOTER, CIG_AANTAL_PJT_IN_FILTER FROM BUBS_FOOTER_R WHERE ID IS NOT NULL	http://tst.estate.invantive.com/smoke_bubs/itgen_gtm_all.do	getOneRow()	13.279	15-11-2012 21:01:55	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_gtm_all	192.168.172.26	SELECT * FROM ITGEN_GSY_PICKLIST_R	http://tst.estate.invantive.com/smoke_bubs/itgen_gtm_all.do	getRows()	13.278	15-11-2012 21:01:55	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_gtm_all	192.168.172.26	SELECT APN_CODE, APN_ID, GTM_NK, GTM_DEFINITION, GTM_DOCUMENTATION, GTM_ID, GTM_LANGUAGE_INDEPENDENT_FLAG, GTM_TERM, GSY_CODE, GSY_ID FROM ITGEN_GLOSSARY_TERMS_V ORDER BY GSY_CODE, GTM_TERM	http://tst.estate.invantive.com/smoke_bubs/itgen_gtm_all.do	getRows()	13.277	15-11-2012 21:01:55	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_gtm_all	192.168.172.26	SELECT CODE, LABEL FROM BUBS_LOV_RECORDS_PER_PAGINA_R ORDER BY SORTEER_VOLGORDE	http://tst.estate.invantive.com/smoke_bubs/itgen_gtm_all.do	getRows()	13.276	15-11-2012 21:01:55	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_gtm_all	192.168.172.26	SELECT PJT_CODE, PJT_VOLLEDIGE_NAAM, PJT_SORTEER_VOLGORDE FROM BUBS_MOGELIJKE_PJT_PICKLIST_R ORDER BY PJT_SORTEER_VOLGORDE	http://tst.estate.invantive.com/smoke_bubs/itgen_gtm_all.do	getRows()	13.275	15-11-2012 21:01:55	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_gtm_all	192.168.172.26	SELECT GBR_AANMELD_CODE, FUNCTIE, ISG_OMGEVING, REMOTE_HOST, TIJDSTIP, SCHERM_WIJZIGEN_VLAG, ROL_ALLE_PJT_ZIEN_VLAG, ROL_ALLE_PJT_WIJZIGEN_VLAG, CIG_OMSCHRIJVING_FOOTER, PJT_CODE, CIG_DATUM_RAPPORTAGE, CIG_AANTAL_PJT_IN_FILTER FROM BUBS_FOOTER_R WHERE ID IS NOT NULL	http://tst.estate.invantive.com/smoke_bubs/itgen_gtm_all.do	getOneRow()	13.274	15-11-2012 21:01:55	252.114	CEBE744D674A6FB3FEA2292F420BB261-1
system	itgen_gtm_all	192.168.172.26	select functie , scherm_wijzigen_vlag , scherm_toegang_vlag from bubs_mijn_rechten_scherm_r	http://tst.estate.invantive.com/smoke_bubs/itgen_gtm_all.do	getOneRow()	13.273	15-11-2012 21:01:55	252.114	CEBE744D674A6FB3FEA2292F420BB261-1

There are no entry fields.

The meaning of the other fields:

Login	The user name as registered in Persons 296.
Module	The module that w as used for the transaction.
Machine	The Internet address of the computer that generated the transaction.

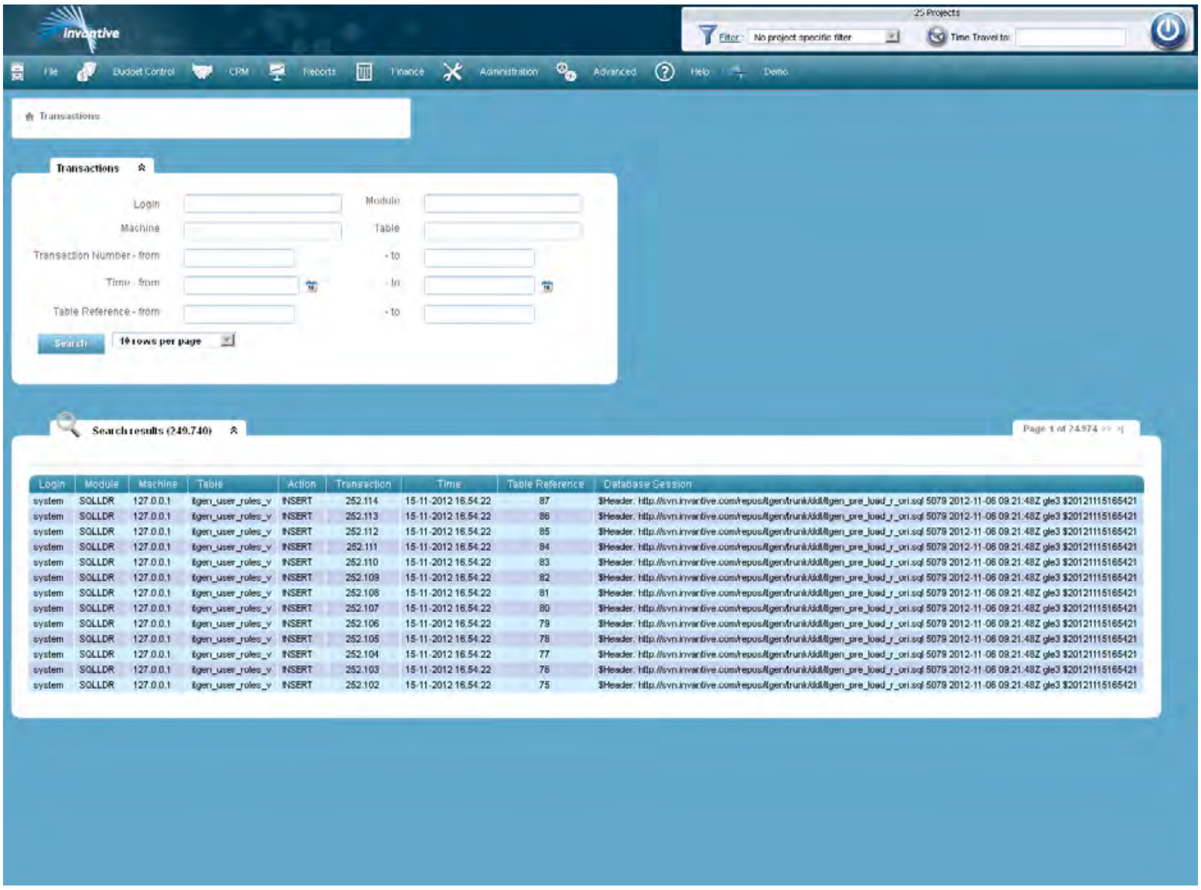
Query	The request made by the user using a query.
URL	The URL of the screen of Invantive Estatefrom where the interaction was requested.
Action	The SQL action that was initiated by the interaction. The actions can be 'select', 'update', 'insert' or 'delete'.
Interaction	Unique numeric code that serves as a unique index, whose value is equal to the 'column ID'.
Time	The date and time at which the interaction was requested.
Last Transaction	The number of the last transaction.
Database Session	A unique alphanumeric value that identifies the database session.

Transactions

In this form you can view transactions, specifically for Invantive Producer.

A transaction is a change of the data which are registered by Invantive Producer. All transactions are saved.

For each transaction is recorded by whom (username), when (time), from which form (module), from which PC (machine), what action (action) was performed in which table (table) and within which session (session). Moreover, an ascending transaction number is allocated. Finally, every transaction refers to the data which was being changed with a table reference. This is a unique number in the table, so that changed data can be traced.



Login	Module	Machine	Table	Action	Transaction	Time	Table Reference	Database Session
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.114	15-11-2012 16:54:22	87	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.113	15-11-2012 16:54:22	86	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.112	15-11-2012 16:54:22	85	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.111	15-11-2012 16:54:22	84	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.110	15-11-2012 16:54:22	83	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.109	15-11-2012 16:54:22	82	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.108	15-11-2012 16:54:22	81	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.107	15-11-2012 16:54:22	80	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.106	15-11-2012 16:54:22	79	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.105	15-11-2012 16:54:22	78	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.104	15-11-2012 16:54:22	77	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.103	15-11-2012 16:54:22	76	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421
system	SQLLDR	127.0.0.1	itgen_user_roles_v	INSERT	252.102	15-11-2012 16:54:22	75	$Header: http://svn.invantive.com/repos/itgen/trunk/ddl/itgen_pre_load_r_ori.sql 5079 2012-11-06 09:21:48Z gle3 $20121115165421

There are no entry fields.

The meaning of the other fields:

Login	The user name as registered in Persons 296.
Module	The module that was used for the transaction.
Machine	The Internet address of the computer that generated the transaction.
Table	The name of the table in which the action was performed.

Action	The SQL action which was started by the transaction. The actions can be ‘select’, ‘update’, ‘insert’ or ‘delete’.
Transaction	Ascending transaction number
Time	The date and time the transaction was requested.
Table Reference	Unique number within the table that is stored in the ID column and refers to the data that has been changed.
Database Session	A unique alphanumeric value that identifies the database session.

Settings (Invantive Producer)

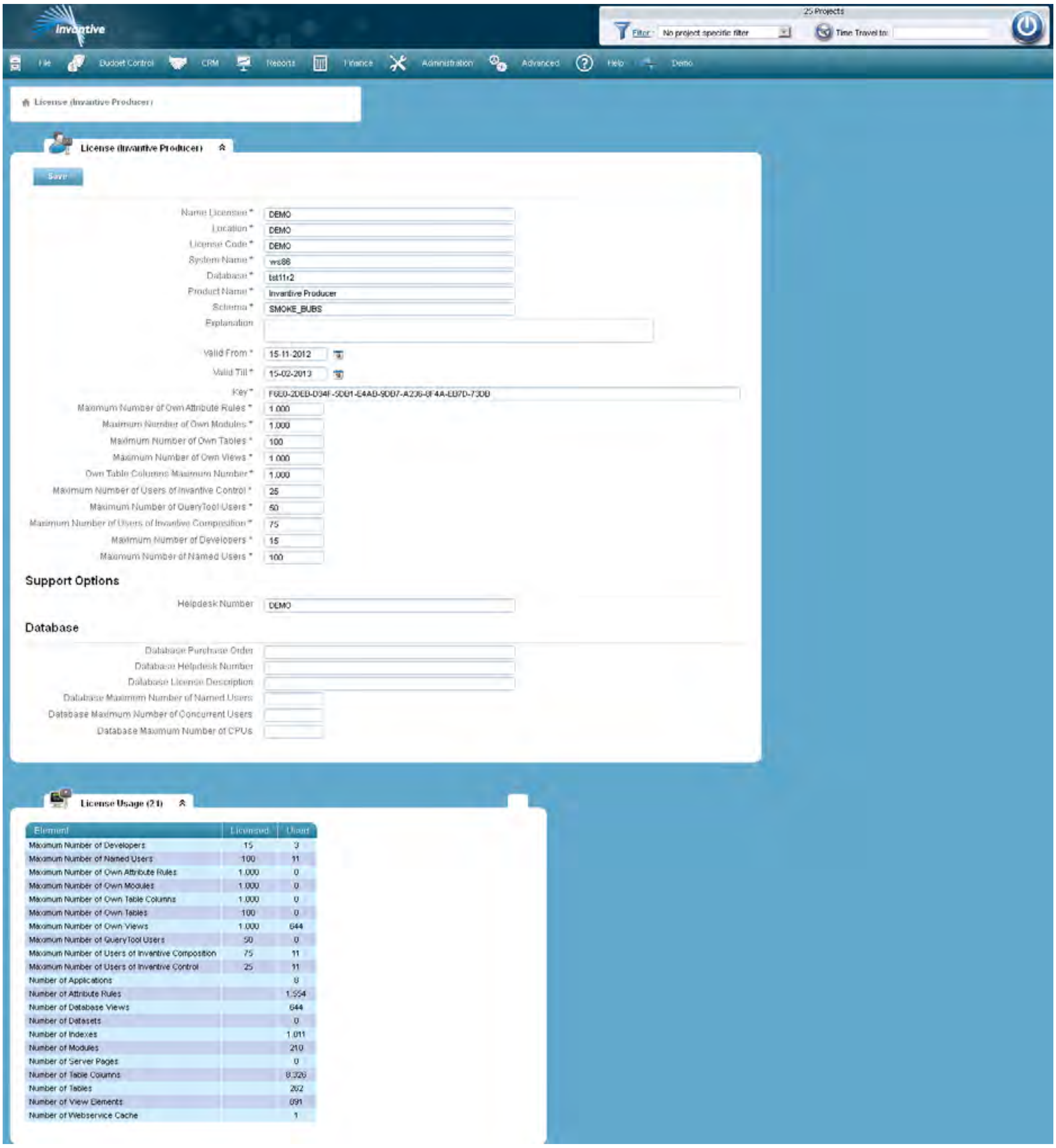
Enter text here.

License (Invantive Producer)

The authorization to use a computer program may be specified in a contract, a license, and often contains restrictions regarding copying the program or the number of simultaneous users that may use the program. Usually a fee is demanded for using the program by the person who owns the copyrights.

This screen allows you to activate the license of Invantive Producer.

Only the user ‘system’ can use the application as long as the license is not activated.



Name Licensee *	DEMO
Location *	DEMO
License Code *	DEMO
System Name *	ws88
Database *	tst11r2
Product Name *	Invantive Producer
Schema *	SMOKE_BUBS
Explanation	
Valid From *	15-11-2012
Valid Till *	15-02-2013
Key *	F6E0-2DEB-D34F-5DB1-E4AD-9DB7-A236-0F4A-EB7D-73DB
Maximum Number of Own Attribute Rules *	1.000
Maximum Number of Own Modules *	1.000
Maximum Number of Own Tables *	100
Maximum Number of Own Views *	1.000
Own Table Columns Maximum Number *	1.000
Maximum Number of Users of Invantive Control *	25
Maximum Number of QueryTool Users *	50
Maximum Number of Users of Invantive Composition *	75
Maximum Number of Developers *	15
Maximum Number of Named Users *	100

Support Options

Helpdesk Number	DEMO

Database

Database Purchase Order	
Database Helpdesk Number	
Database License Description	
Database Maximum Number of Named Users	
Database Maximum Number of Concurrent Users	
Database Maximum Number of CPUs	

License Usage (21)

Element	Licensed	Used
Maximum Number of Developers	15	3
Maximum Number of Named Users	100	11
Maximum Number of Own Attribute Rules	1.000	0
Maximum Number of Own Modules	1.000	0
Maximum Number of Own Table Columns	1.000	0
Maximum Number of Own Tables	100	0
Maximum Number of Own Views	1.000	644
Maximum Number of QueryTool Users	50	0
Maximum Number of Users of Invantive Composition	75	11
Maximum Number of Users of Invantive Control	25	11
Number of Applications		8
Number of Attribute Rules		1.554
Number of Database Views		644
Number of Datasets		0
Number of Indexes		1.011
Number of Modules		210
Number of Server Pages		0
Number of Table Columns		8.326
Number of Tables		262
Number of View Elements		891
Number of Webservice Cache		1

The meaning of the entry fields is:

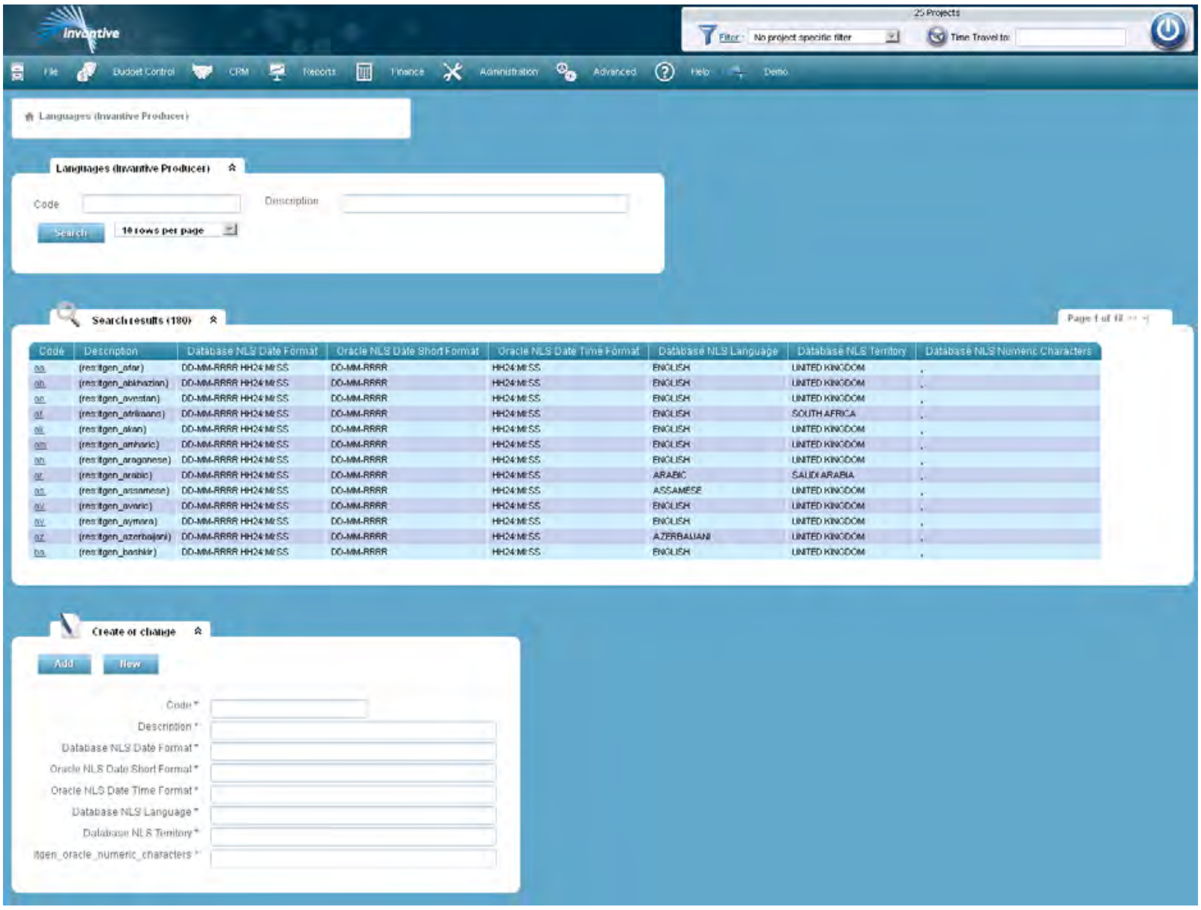
Name Licensee	Name on which the license is registered.
Location	Location where the license is installed.
License Code	The license code of the application as registered by Invantive.
System Name	The name of the server where the database is installed.
Database	The name of the database on which the application is installed.
Product Name	The name of the application to which the license applies.
Schema	The name of the schema in the database used to install the tables.
Valid From	The beginning of the validity of the license.
Valid To	The end date of the validity of the license.
Key	The key to activate the license.
Maximum Number of Own Attribute Rules	The maximum number of own attribute rules that can be registered.
Maximum Number of Own Modules	The maximum number of project developers for which projects can be active.

Maximum Number of Own Tables	The maximum number of own tables that can be created.
Maximum Number of Own Views	The maximum number of own views that can be created.
Maximim Number of Control Users	The maximum number of named users for Invantive Control.
Maximum number of Query Tool users	The maximum number of named users for Invantive Query Tool.
Maximum Number of Developers	The maximum number of developers.
Maximum Number of Named Users	The maximum number of named users.
Support Options	
Helpdesk Number	The helpdesk number for the database.
Database	
Database Purchase Order	Purchase Order from the database supplier for the database license.
Database Helpdesk Number	The helpdesk number for the database.
Database License Description	Description of the database license.
Database Maximum Number of Named Users	The maximum number of named users for the database.
Database Maximum Number of Concurrent Users	The maximum number of simultaneous users for the database.
Database Maximum Number of CPUs	The maximum number of processors for the database.

Languages (Invantive Producer)

In this form you can register and change languages for Invantive Producer.

The registration of languages is a typical activity for developers of Invantive Producer. See the warning under Application Development 272.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Languages (Invantive Producer)
Languages (Invantive Producer)
Code
Description
Search
10 rows per page
Search results (180)
Page 1 of 18
Create or change
Add
New
Code *
Description *
Database NLS Date Format *
Oracle NLS Date Short Format *
Oracle NLS Date Time Format *
Database NLS Language *
Database NLS Territory *
itgen_oracle_numeric_characters *

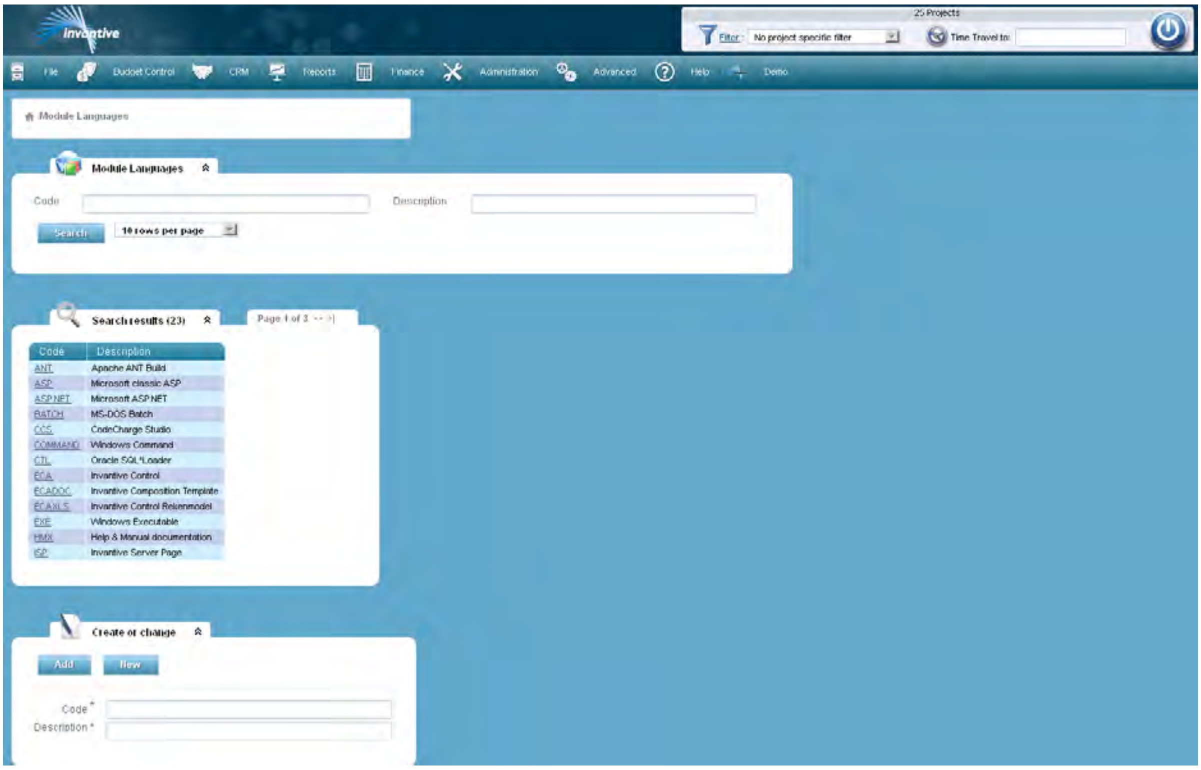
Code	Description	Database NLS Date Format	Oracle NLS Date Short Format	Oracle NLS Date Time Format	Database NLS Language	Database NLS Territory	Database NLS Numeric Characters
aa	(res:itgen_afar)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ENGLISH	UNITED KINGDOM	,
ab	(res:itgen_abkhazian)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ENGLISH	UNITED KINGDOM	,
ae	(res:itgen_avestan)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ENGLISH	UNITED KINGDOM	,
af	(res:itgen_afrikaans)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ENGLISH	SOUTH AFRICA	,
ak	(res:itgen_akan)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ENGLISH	UNITED KINGDOM	,
am	(res:itgen_amharic)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ENGLISH	UNITED KINGDOM	,
an	(res:itgen_aragonese)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ENGLISH	UNITED KINGDOM	,
ar	(res:itgen_arabic)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ARABIC	SAUDI ARABIA	,
as	(res:itgen_assamese)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ASSAMESE	UNITED KINGDOM	,
av	(res:itgen_avaric)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ENGLISH	UNITED KINGDOM	,
ay	(res:itgen_aymara)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ENGLISH	UNITED KINGDOM	,
az	(res:itgen_azerbaijani)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	AZERBAIJANI	UNITED KINGDOM	,
ba	(res:itgen_bashkir)	DD-MM-RRRR HH24:MI:SS	DD-MM-RRRR	HH24:MI:SS	ENGLISH	UNITED KINGDOM	,

The meaning of the entry fields is:

Code	The code used to refer to the language. It is recommended to conform to the international language codes.
Description	The description of the language.
Database NLS Date Format	The selected date format. This should always be 'dd-mm-rrrr hh24:mi:ss'. Other date formats are not yet supported.
Database NLS Language	The language setting in the database which makes that database errors are displayed in the correct language.
Database NLS Territory	The region setting in the database which makes that region dependent settings are displayed in a correct way.

Module Languages

In this screen you can register and change the programming languages of modules..


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Module Languages
Module Languages
Code
Description
Search
10 rows per page
Search results (23)
Page 1 of 3
Create or change
Add
New
Code *
Description *

Code	Description
ANT	Apache ANT Build
ASP	Microsoft classic ASP
ASP.NET	Microsoft ASP.NET
BATCH	MS-DOS Batch
CCS	CodeCharge Studio
COMMAND	Windows Command
CTL	Oracle SQL*Loader
ECA	Invantive Control
ECADOC	Invantive Composition Template
ECAXLS	Invantive Control Rekenmodel
EXE	Windows Executable
HMX	Help & Manual documentation
ISP	Invantive Server Page

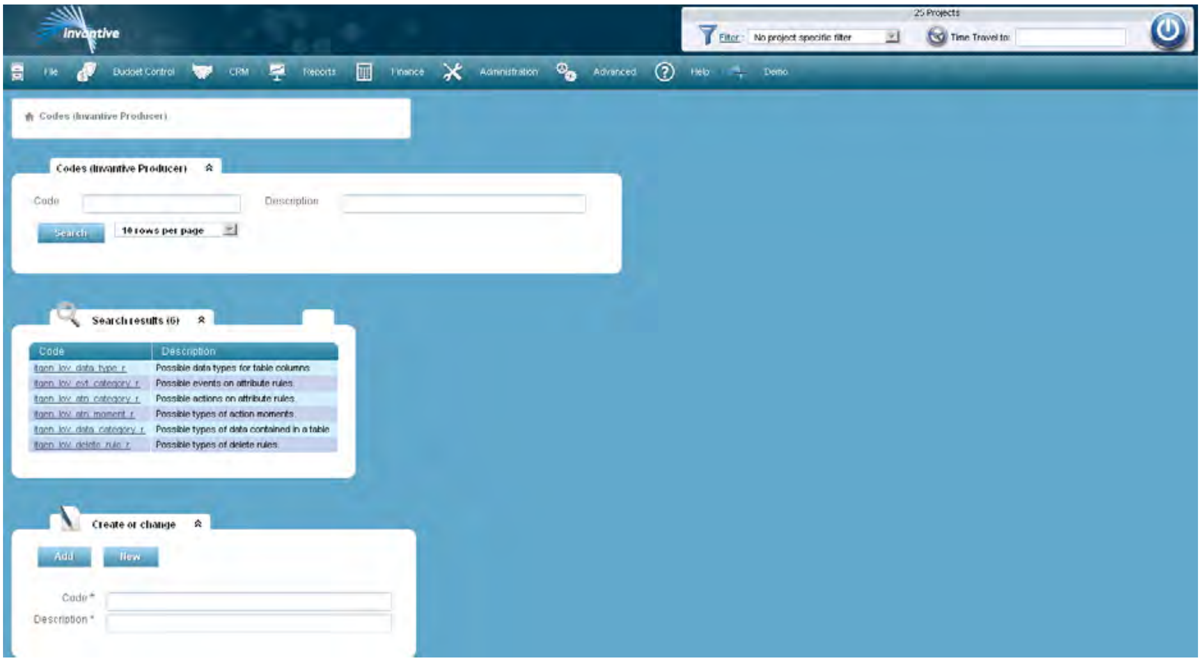
The meaning of the entry fields is:

Code	The code used to refer to the programming language.
Description	The description of the programming language.

Codes (Invantive Producer)

In this form you can register and change codes.

A code is a list of values that belong to a common denominator. They are widely used in application development to construct ‘domains’. A domain, for example, can be used to store a list of values for a field.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Codes (Invantive Producer)
Codes (Invantive Producer)
Code
Description
Search
10 rows per page
Search results (6)
Create or change
Add
New
Code *
Description *

Code	Description
itgen_lov_data_type_r	Possible data types for table columns
itgen_lov_evt_category_r	Possible events on attribute rules.
itgen_lov_atn_category_r	Possible actions on attribute rules.
itgen_lov_atn_moment_r	Possible types of action moments.
itgen_lov_data_category_r	Possible types of data contained in a table
itgen_lov_delete_rule_r	Possible types of delete rules.

Code	The code referring to the code list.
Description	The description of the code list.

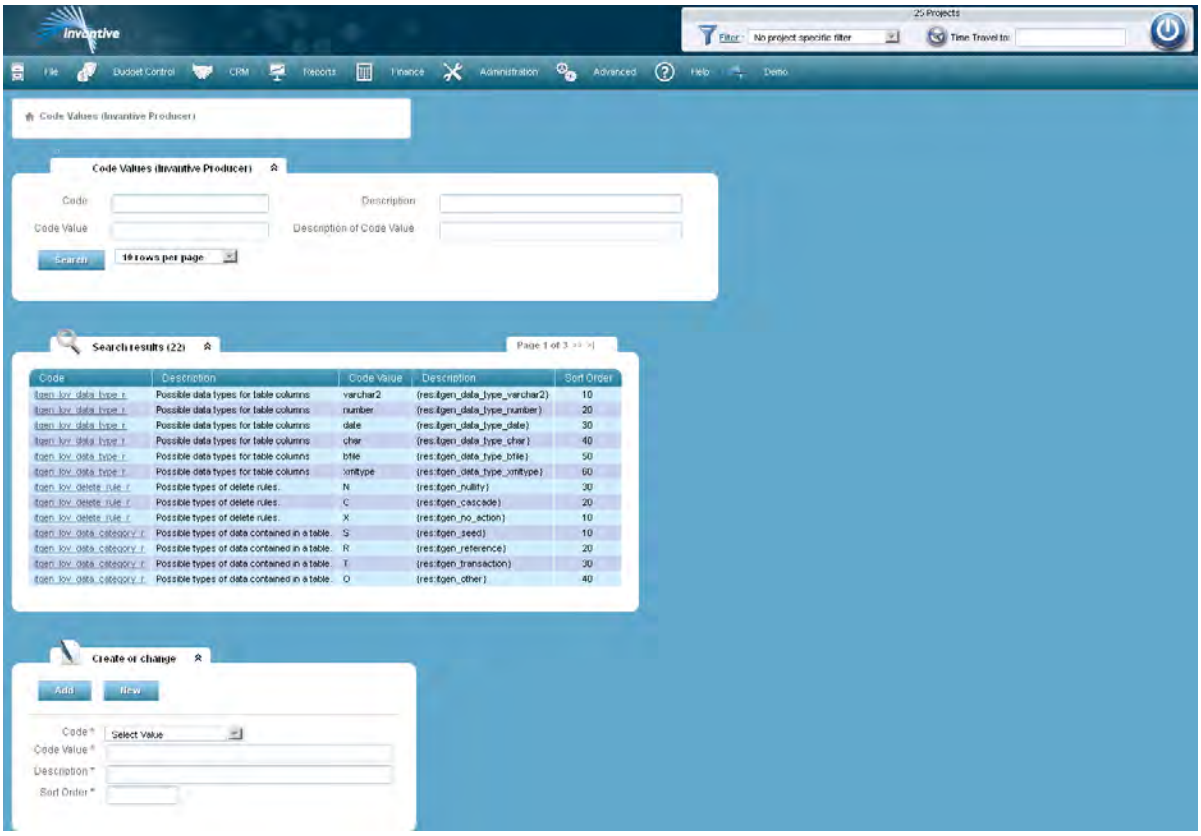
Code Values (Invantive Producer)

In this screen you can register and change code values.

A code is a list of values that belong to a common denominator. They are widely used in application development to construct 'domains'. A domain, for example, can be used to store a list of values for a field. For example the screen 'Revenues' shows a code list for the number of periods.

Use the screen Codes 317 to register codes and consequently use this screen to register the individual values.

The registration of code values is a typical activity for application developers. See the warning under Application Development 272.


Invantive
25 Projects
Filter
No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Code Values (Invantive Producer)
Code Values (Invantive Producer)
Code
Description
Code Value
Description of Code Value
Search
10 rows per page
Search results (22)
Page 1 of 3
Create or change
Add
New
Code *
Select Value
Code Value *
Description *
Sort Order *

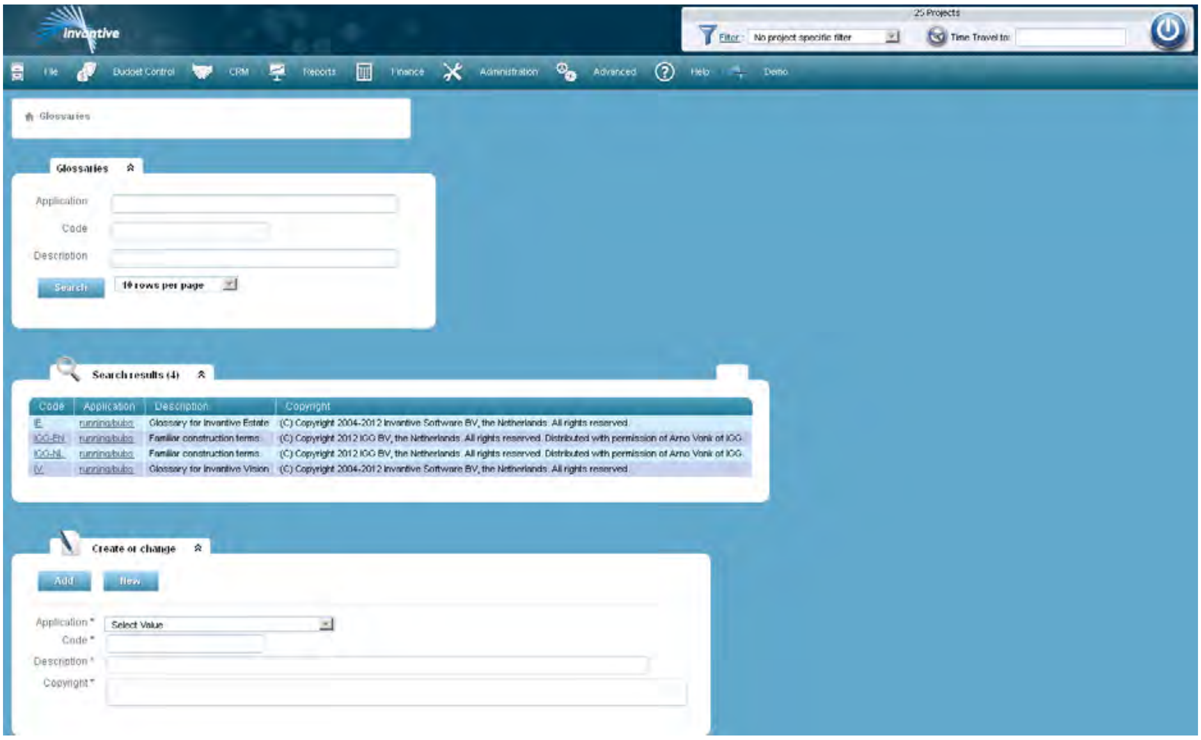
Code	Description	Code Value	Description	Sort Order
itgen_lov_data_type_r	Possible data types for table columns	varchar2	{res:itgen_data_type_varchar2}	10
itgen_lov_data_type_r	Possible data types for table columns	number	{res:itgen_data_type_number}	20
itgen_lov_data_type_r	Possible data types for table columns	date	{res:itgen_data_type_date}	30
itgen_lov_data_type_r	Possible data types for table columns	char	{res:itgen_data_type_char}	40
itgen_lov_data_type_r	Possible data types for table columns	bfile	{res:itgen_data_type_bfile}	50
itgen_lov_data_type_r	Possible data types for table columns	xmltype	{res:itgen_data_type_xmltype}	60
itgen_lov_delete_rule_r	Possible types of delete rules.	N	{res:itgen_nullity}	30
itgen_lov_delete_rule_r	Possible types of delete rules.	C	{res:itgen_cascade}	20
itgen_lov_delete_rule_r	Possible types of delete rules.	X	{res:itgen_no_action}	10
itgen_lov_data_category_r	Possible types of data contained in a table.	S	{res:itgen_seed}	10
itgen_lov_data_category_r	Possible types of data contained in a table.	R	{res:itgen_reference}	20
itgen_lov_data_category_r	Possible types of data contained in a table.	T	{res:itgen_transaction}	30
itgen_lov_data_category_r	Possible types of data contained in a table.	O	{res:itgen_other}	40

The meaning of the entry fields is:

Code	The code referring to the code list.
Code Value	The code of the individual value, for example 'date'.
Description	The description of the code value, for example '{res:itgen_data_type_char.
Sort Order	A numeric value used for sorting the codes when they are shown in a list box in a screen.

Glossaries

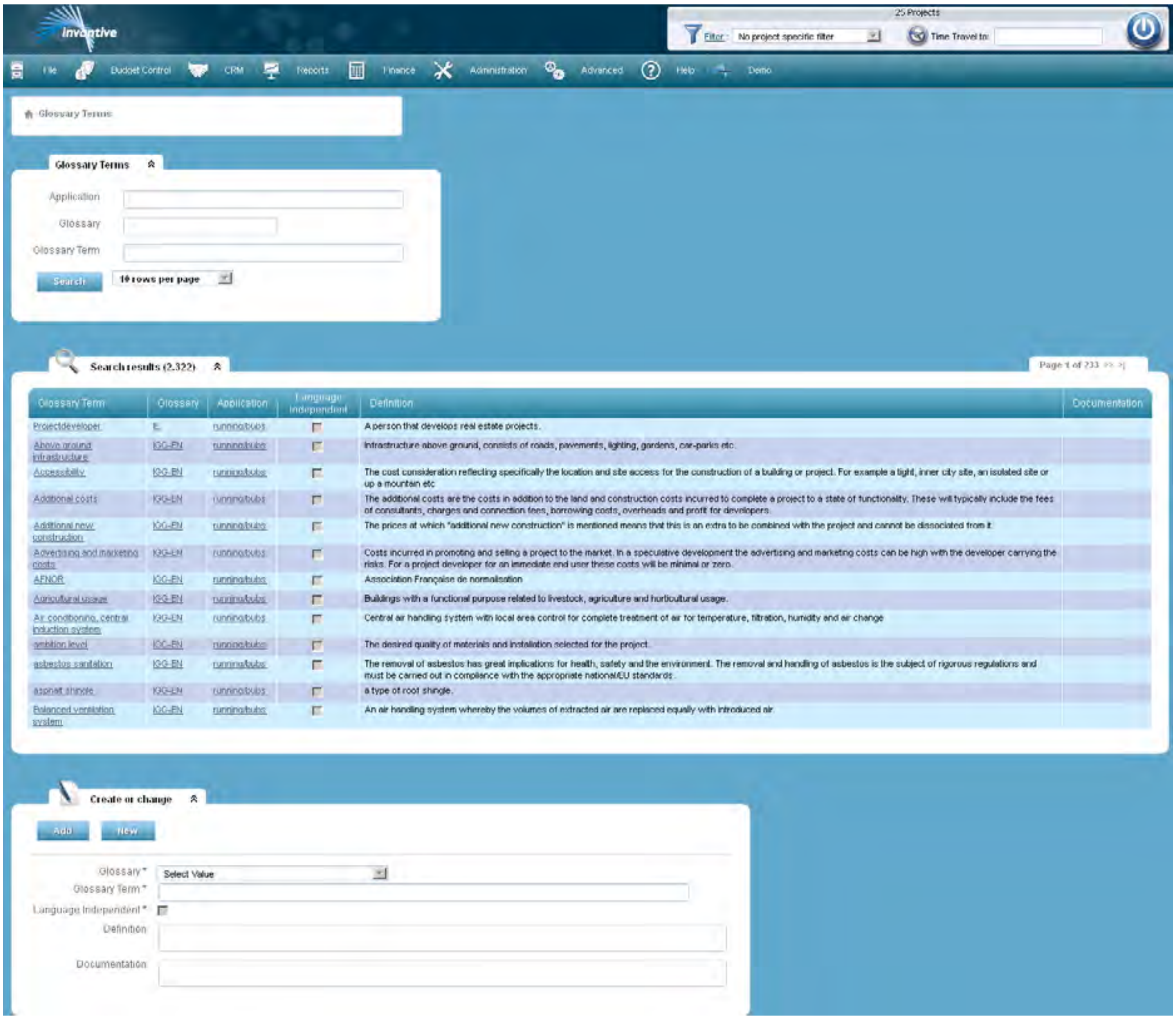
Enter text here.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Glossaries
Glossaries
Application
Code
Description
Search
10 rows per page
Search results (4)
Create or change
Add
New
Application *
Select Value
Code *
Description *
Copyright *

Code	Application	Description	Copyright
IE	running/bubs	Glossary for Invantive Estate	(C) Copyright 2004-2012 Invantive Software BV, the Netherlands. All rights reserved.
IGG-EN	running/bubs	Familiar construction terms.	(C) Copyright 2012 IGG BV, the Netherlands. All rights reserved. Distributed with permission of Arno Vonk of IGG.
IGG-NL	running/bubs	Familiar construction terms.	(C) Copyright 2012 IGG BV, the Netherlands. All rights reserved. Distributed with permission of Arno Vonk of IGG.
IV	running/bubs	Glossary for Invantive Vision	(C) Copyright 2004-2012 Invantive Software BV, the Netherlands. All rights reserved.

Glossary Terms

Enter text here.



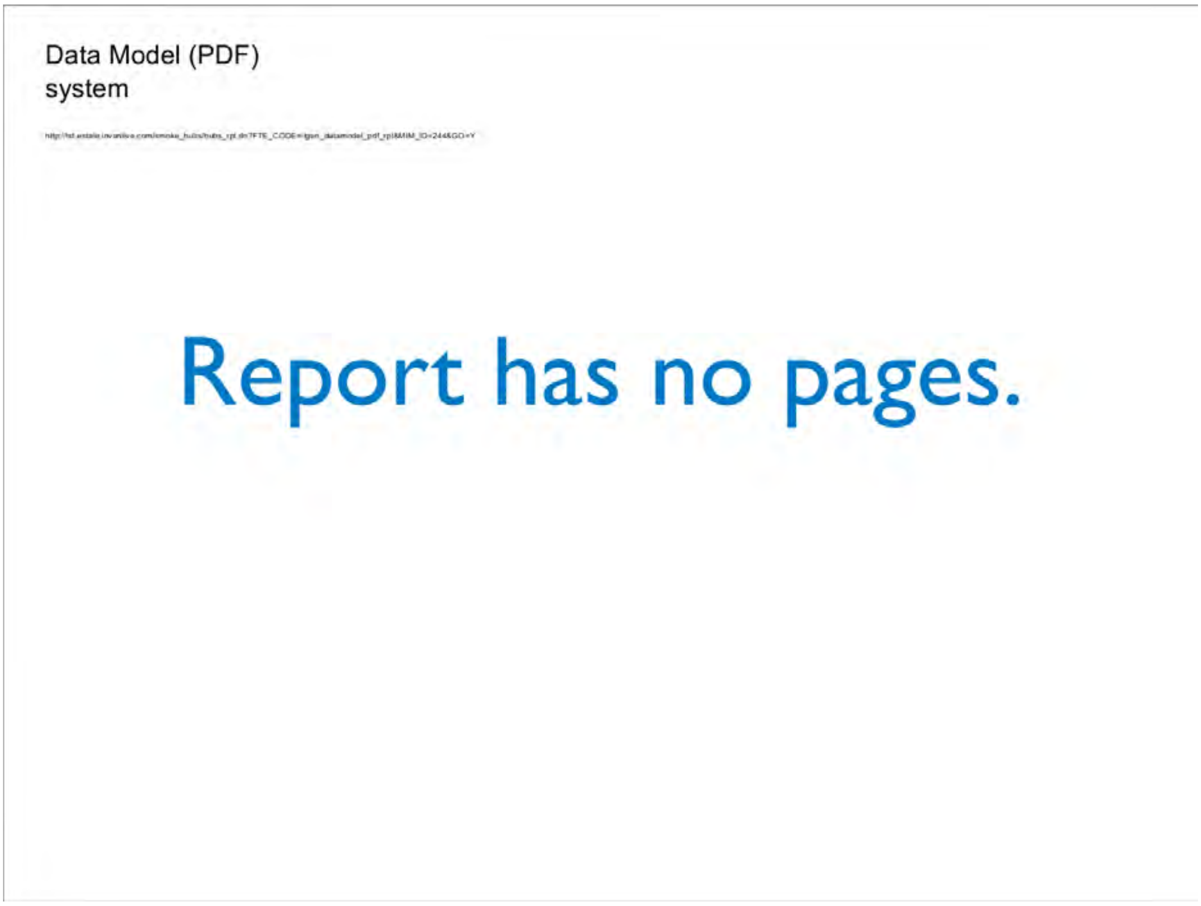
Application
Glossary
Glossary Term

Glossary Term	Glossary	Application	Language Independent	Definition	Documentation
Projectdeveloper	E	runningtubs	☐	A person that develops real estate projects.	
Above ground infrastructure	IGG-EN	runningtubs	☐	Infrastructure above ground, consists of roads, pavements, lighting, gardens, car-parks etc.	
Accessibility	IGG-EN	runningtubs	☐	The cost consideration reflecting specifically the location and site access for the construction of a building or project. For example a tight, inner city site, an isolated site or up a mountain etc	
Additional costs	IGG-EN	runningtubs	☐	The additional costs are the costs in addition to the land and construction costs incurred to complete a project to a state of functionality. These will typically include the fees of consultants, charges and connection fees, borrowing costs, overheads and profit for developers.	
Additional new construction	IGG-EN	runningtubs	☐	The prices at which "additional new construction" is mentioned means that this is an extra to be combined with the project and cannot be dissociated from it.	
Advertising and marketing costs	IGG-EN	runningtubs	☐	Costs incurred in promoting and selling a project to the market. In a speculative development the advertising and marketing costs can be high with the developer carrying the risks. For a project developer for an immediate end user these costs will be minimal or zero.	
AFNOR	IGG-EN	runningtubs	☐	Association Française de normalisation	
Agricultural usage	IGG-EN	runningtubs	☐	Buildings with a functional purpose related to livestock, agriculture and horticultural usage.	
Air conditioning, central induction system	IGG-EN	runningtubs	☐	Central air handling system with local area control for complete treatment of air for temperature, filtration, humidity and air change	
ambition level	IGG-EN	runningtubs	☐	The desired quality of materials and installation selected for the project.	
asbestos sanitation	IGG-EN	runningtubs	☐	The removal of asbestos has great implications for health, safety and the environment. The removal and handling of asbestos is the subject of rigorous regulations and must be carried out in compliance with the appropriate national/EU standards.	
asphalt shingle	IGG-EN	runningtubs	☐	a type of roof shingle.	
Balanced ventilation system	IGG-EN	runningtubs	☐	An air handling system whereby the volumes of extracted air are replaced equally with introduced air.	

Glossary * Select Value
Glossary Term *
Language Independent * ☐
Definition
Documentation

Data model (pdf)

This report shows the data model of an application within Invantive Producer.



Data Model (PDF)
system

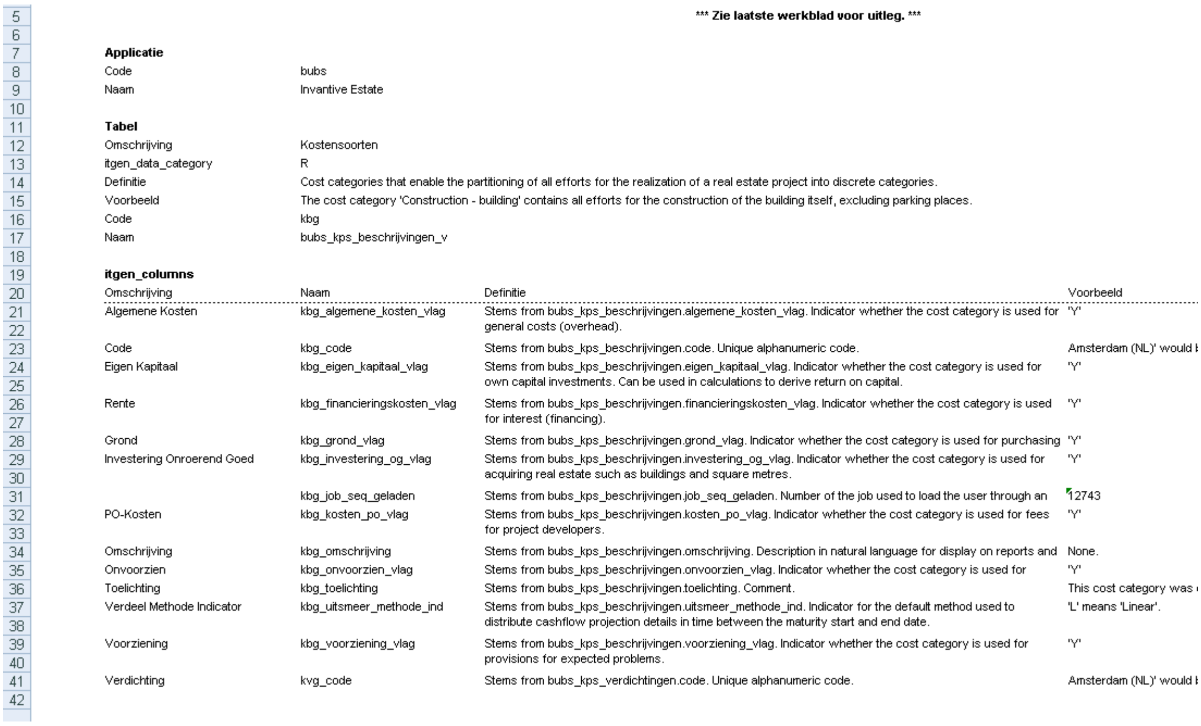
Report has no pages.

This report has the following optional parameters:

P_APN_CODE	The application about w hich is reported.
P_VIW_NAME _PATTERN	The name of the view s have to satisfy this pattern for ‘like’.
P_TBE_NAME _PATTERN	The name of the view s have to satisfy this pattern for ‘like’.
P_INCL_TBE_ VLAG	Indicator Yes (‘Y’) / No (‘N’) if the tables should be included in the report.
P_INCL_VIW_ VLAG	Indicator Yes (‘Y’) / No (‘N’) if the view s should be included in the report.
P_INCL_TCN_ VLAG	Indicator Ja (‘Y’) / Nee (‘N’) if the columns should be included in the report.
P_INCL_IDX_V LAG	Indicator Yes (“Y’) / No (‘N’) if the indexes should be included in the report.
P_INCL_RCT_ VLAG	Indicator Ja (‘Y’) / Nee (‘N’) if the referential constraints should be included in the report.
P_INCL_ARE_ VLAG	Indicator Yes (‘Y’) / No (‘N’) if the attribuut rules should be included in the report.
P_INCL_TCL_ VLAG	Indicator Yes (‘Y’) / No (‘N’) if the short list of columns should be included in the report.
P_INCL_TBE_ CONTENTS_V LAG	Indicator Yes (‘Y’) / No (‘N’) if the contents of trunk tables should be included in the report.

Implementation (xls)

This report shows the information necessary for the implementation of an application within Invantive Producer.



*** Zie laatste werkblad voor uitleg. ***

Applicatie

Code	bubs
Naam	Invantive Estate

Tabel

Omschrijving	Kostensoorten
itgen_data_category	R
Definitie	Cost categories that enable the partitioning of all efforts for the realization of a real estate project into discrete categories.
Voorbeeld	The cost category 'Construction - building' contains all efforts for the construction of the building itself, excluding parking places.
Code	kbg
Naam	bubs_kps_beschrijvingen_v

itgen_columns

Omschrijving	Naam	Definitie	Voorbeeld
Algemene Kosten	kbg_algemene_kosten_vlag	Stems from bubs_kps_beschrijvingen.algemene_kosten_vlag. Indicator whether the cost category is used for general costs (overhead).	'Y'
Code	kbg_code	Stems from bubs_kps_beschrijvingen.code. Unique alphanumeric code.	Amsterdam (NL)' would
Eigen Kapitaal	kbg_eigen_kapitaal_vlag	Stems from bubs_kps_beschrijvingen.eigen_kapitaal_vlag. Indicator whether the cost category is used for own capital investments. Can be used in calculations to derive return on capital.	'Y'
Rente	kbg_financieringskosten_vlag	Stems from bubs_kps_beschrijvingen.financieringskosten_vlag. Indicator whether the cost category is used for interest (financing).	'Y'
Grond	kbg_grond_vlag	Stems from bubs_kps_beschrijvingen.grond_vlag. Indicator whether the cost category is used for purchasing	'Y'
Investering Onroerend Goed	kbg_investering_og_vlag	Stems from bubs_kps_beschrijvingen.investering_og_vlag. Indicator whether the cost category is used for acquiring real estate such as buildings and square metres.	'Y'
	kbg_job_seq_geladen	Stems from bubs_kps_beschrijvingen.job_seq_geladen. Number of the job used to load the user through an	12743
PO-Kosten	kbg_kosten_po_vlag	Stems from bubs_kps_beschrijvingen.kosten_po_vlag. Indicator whether the cost category is used for fees for project developers.	'Y'
Omschrijving	kbg_omschrijving	Stems from bubs_kps_beschrijvingen.omschrijving. Description in natural language for display on reports and	None.
Onvoorzien	kbg_onvoorzien_vlag	Stems from bubs_kps_beschrijvingen.onvoorzien_vlag. Indicator whether the cost category is used for	'Y'
Toelichting	kbg_toelichting	Stems from bubs_kps_beschrijvingen.toelichting. Comment.	This cost category was
Verdeel Methode Indicator	kbg_uitsmeer_methode_ind	Stems from bubs_kps_beschrijvingen.uitsmeer_methode_ind. Indicator for the default method used to distribute cashflow projection details in time between the maturity start and end date.	'L' means 'Linear'.
Voorziening	kbg_voorziening_vlag	Stems from bubs_kps_beschrijvingen.voorziening_vlag. Indicator whether the cost category is used for provisions for expected problems.	'Y'
Verdichting	kvg_code	Stems from bubs_kps_verdichtingen.code. Unique alphanumeric code.	Amsterdam (NL)' would

This report has the following optional parameters:

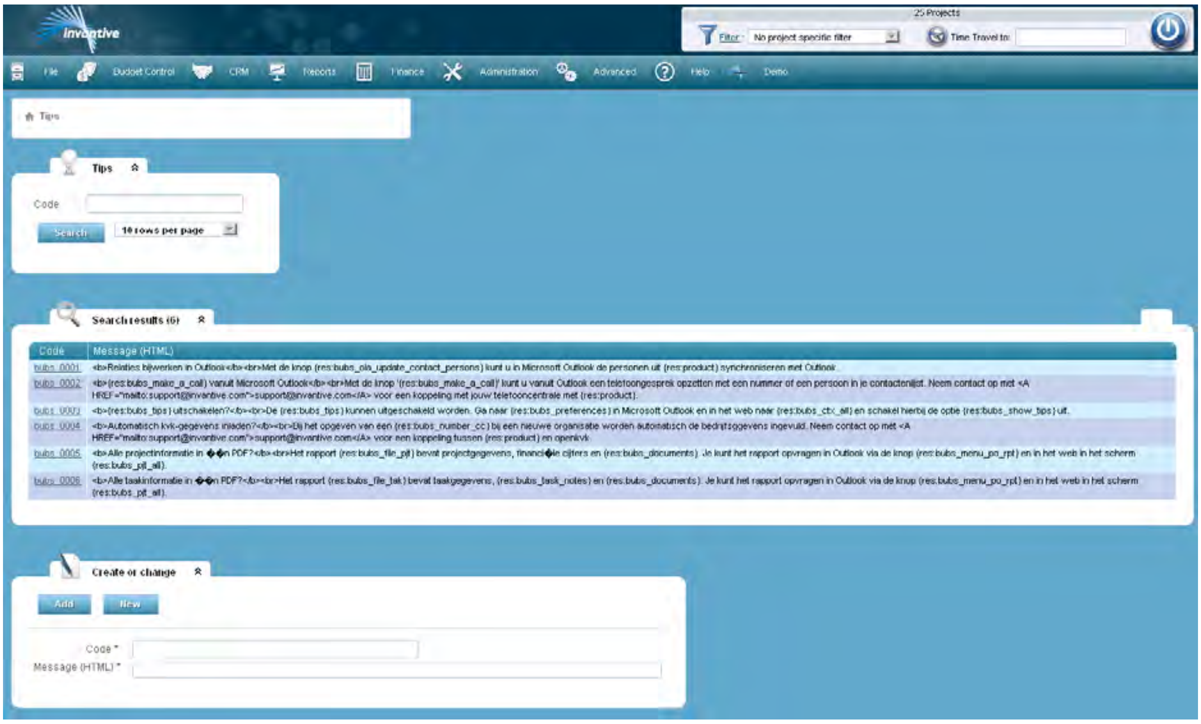
P_APN_CODE	The application about w hich is reported.
P_TCN_COL_INCL_AUDIT_FLAG	Indicator Yes ('Y') / No ('N') if the audit columns should be included.
P_TCN_COL_INCL_DATA_EXTENSIONS_FLAG	Indicator Yes ('Y") / No ('N') if the free columns should be included.

Tips

In this screen you can register and change tips.

Tips are instructions that show you how you can use Invantive Estate efficiently. In the screen My Preferences 41 you can indicate if you wish to get tips after you have logged on.

The registration of tips is a typical activity for application developers. See the warning under Application Development 272.


Invantive
25 Projects
Filter
No project specific filter
Time Travel to
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Tips
Tips
Code
Search
10 rows per page
Search results (6)
Create or change
Add
New
Code *
Message (HTML) *

Code	Message (HTML)
bubs_0001	Relaties bijwerken in Outlook Met de knop {res:bubs_ols_update_contact_persons} kunt u in Microsoft Outlook de personen uit {res:product} synchroniseren met Outlook.
bubs_0002	{res:bubs_make_a_call} vanuit Microsoft Outlook Met de knop '{res:bubs_make_a_call}' kunt u vanuit Outlook een telefoongesprek opzetten met een nummer of een persoon in je contactenlijst. Neem contact op met <A HREF="mailto:support@invantive.com">support@invantive.com</A> voor een koppeling met jouw telefooncentrale met {res:product}.
bubs_0003	{res:bubs_tips} uitschakelen? De {res:bubs_tips} kunnen uitgeschakeld worden. Ga naar {res:bubs_preferences} in Microsoft Outlook en in het web naar {res:bubs_ctx_all} en schakel hierbij de optie {res:bubs_show_tips} uit.
bubs_0004	Automatisch kvk-gegevens inladen? Bij het opgeven van een {res:bubs_number_cc} bij een nieuwe organisatie worden automatisch de bedrijfsgegevens ingevuld. Neem contact op met <A HREF="mailto:support@invantive.com">support@invantive.com</A> voor een koppeling tussen {res:product} en openkvk.
bubs_0005	Alle projectinformatie in ��n PDF? Het rapport {res:bubs_file_pjt} bevat projectgegevens, financi�le cijfers en {res:bubs_documents}. Je kunt het rapport opvragen in Outlook via de knop {res:bubs_menu_po_rpt} en in het web in het scherm {res:bubs_pjt_all}.
bubs_0006	Alle taakinformatie in ��n PDF? Het rapport {res:bubs_file_tak} bevat taakgegevens, {res:bubs_task_notes} en {res:bubs_documents}. Je kunt het rapport opvragen in Outlook via de knop {res:bubs_menu_po_rpt} en in het web in het scherm {res:bubs_pjt_all}.

The meaning of the entry fields is:

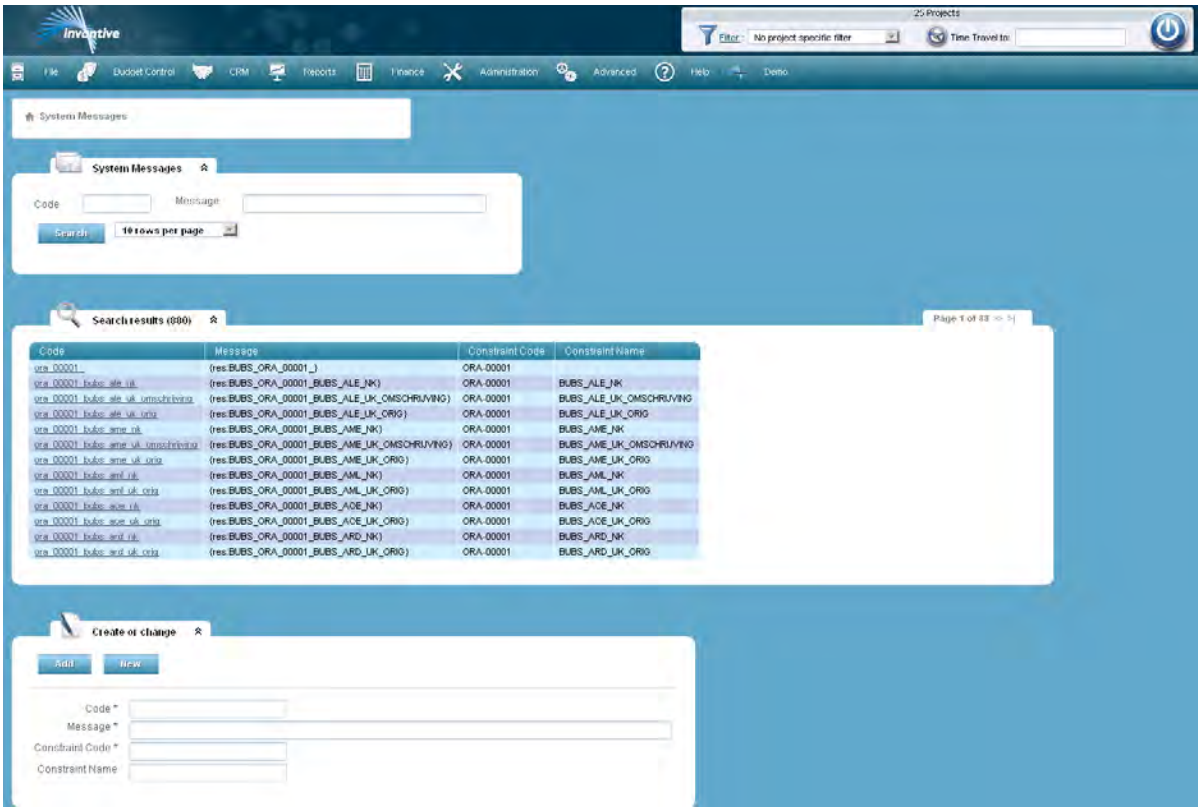
Code	The code used to refer to the tip.
Message (HTML)	The text that appears when the tip is displayed. The text may be entered as HTML. The preference is to include the tip in the format of a Translation 325.

System Messages

In this form you can register and change messages.

A message is a text which is shown when an error occurs during the processing of a change. Error messages from the software use an internal error code and the message translates this internal code in a comprehensible text.

The registration of messages is a typical activity for application developers. See the warning under Application Development 272.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
System Messages
System Messages
Code
Message
Search
10 rows per page
Search results (880)
Page 1 of 88
Create or change
Add
New
Code *
Message *
Constraint Code *
Constraint Name

Code	Message	Constraint Code	Constraint Name
ora_00001_	{res:BUBS_ORA_00001_}	ORA-00001	
ora_00001_bubs_ale_nk	{res:BUBS_ORA_00001_BUBS_ALE_NK}	ORA-00001	BUBS_ALE_NK
ora_00001_bubs_ale_uk_omschrijving	{res:BUBS_ORA_00001_BUBS_ALE_UK_OMSCHRIJVING}	ORA-00001	BUBS_ALE_UK_OMSCHRIJVING
ora_00001_bubs_ale_uk_orig	{res:BUBS_ORA_00001_BUBS_ALE_UK_ORIG}	ORA-00001	BUBS_ALE_UK_ORIG
ora_00001_bubs_ame_nk	{res:BUBS_ORA_00001_BUBS_AME_NK}	ORA-00001	BUBS_AME_NK
ora_00001_bubs_ame_uk_omschrijving	{res:BUBS_ORA_00001_BUBS_AME_UK_OMSCHRIJVING}	ORA-00001	BUBS_AME_UK_OMSCHRIJVING
ora_00001_bubs_ame_uk_orig	{res:BUBS_ORA_00001_BUBS_AME_UK_ORIG}	ORA-00001	BUBS_AME_UK_ORIG
ora_00001_bubs_aml_nk	{res:BUBS_ORA_00001_BUBS_AML_NK}	ORA-00001	BUBS_AML_NK
ora_00001_bubs_aml_uk_orig	{res:BUBS_ORA_00001_BUBS_AML_UK_ORIG}	ORA-00001	BUBS_AML_UK_ORIG
ora_00001_bubs_ace_nk	{res:BUBS_ORA_00001_BUBS_ACE_NK}	ORA-00001	BUBS_ACE_NK
ora_00001_bubs_ace_uk_orig	{res:BUBS_ORA_00001_BUBS_ACE_UK_ORIG}	ORA-00001	BUBS_ACE_UK_ORIG
ora_00001_bubs_ard_nk	{res:BUBS_ORA_00001_BUBS_ARD_NK}	ORA-00001	BUBS_ARD_NK
ora_00001_bubs_ard_uk_orig	{res:BUBS_ORA_00001_BUBS_ARD_UK_ORIG}	ORA-00001	BUBS_ARD_UK_ORIG

The meaning of the entry fields is:

Code	They internal code used to refer to the message.
User Message	The message that will be displayed. This message will be translated with Translations 325.
Constraint Code	The database error code from the software. These error codes usually have the format ORA-99999.
Constraint Name	A part of the database error codes are provided with a reference to the exact location of the message. When translating the database error code to the message, the program will first check if the combination of constraint code and constraint name already exists: • If so, the respective message will be used. • If not, a general constraint code will be looked for, without a filled out constraint name.

Background Scripts

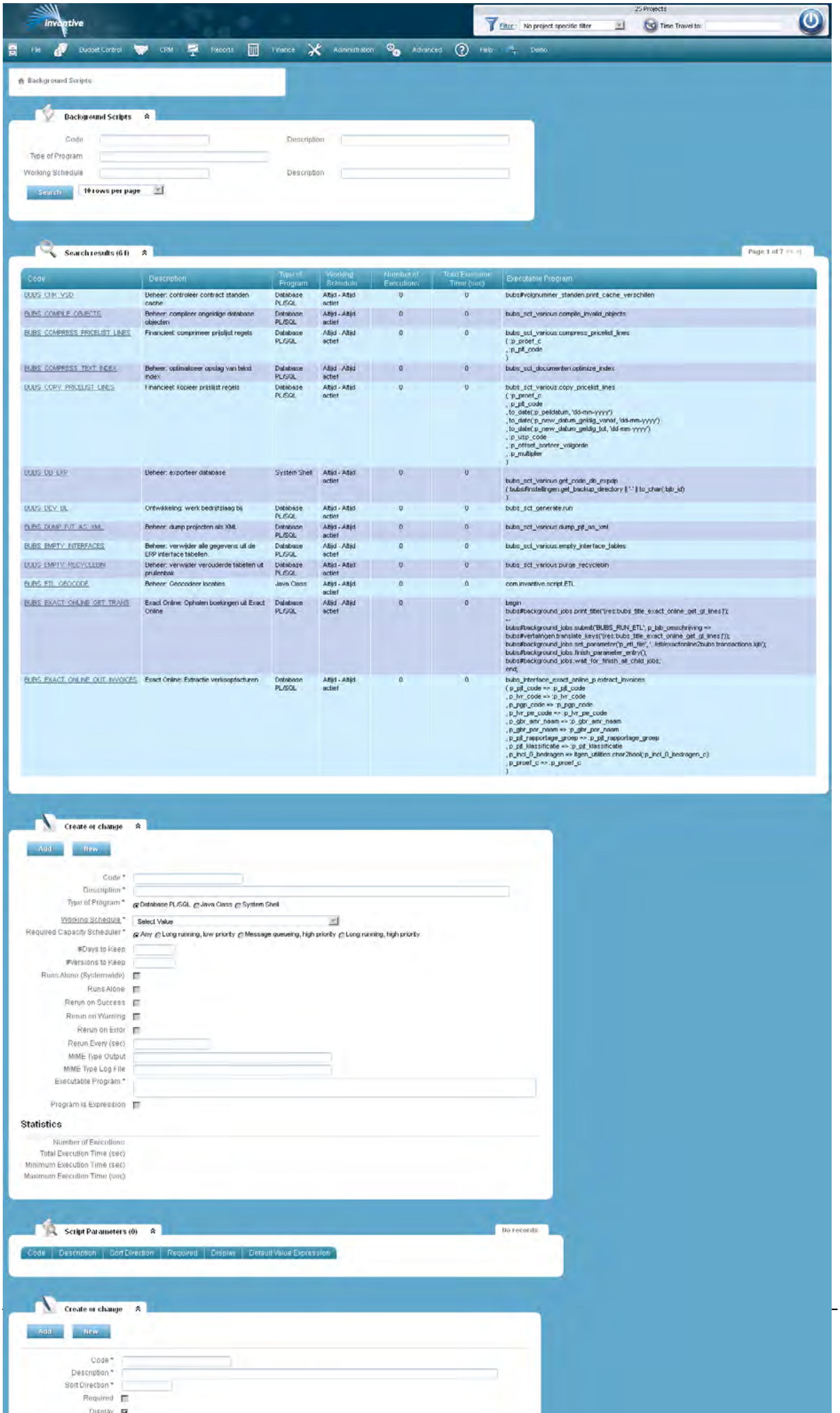
In this screen you can register and change background scripts.

With the help of background scripts management processes and other time-consuming manual processes can be automated.

An example of a background script that automated an administrative process, is ‘BUBS_EMPTY_INTERFACES’. With this script the contents of the ERP interface tables are removed.

If a background script requires parameters for processing they can be specified in the part of the screen with the name ‘Script Parameters’.

The registration of background scripts is a typical activity for application developers. See the warning under Application Development 272.



Background Scripts

Code
Description
Type of Program
Working Schedule
Description
Search
10 rows per page

Search results (64)

Page 1 of 7

Code	Description	Type of Program	Working Schedule	Number of Executions	Total Execution Time (sec)	Executable Program
BUBS_CHK_VSD	Beheer: controleer contract standen cache	Database PL/SQL	Altijd - Altijd actief	0	0	bubs#volgnummer_standen.print_cache_verschillen
BUBS_COMPILE_OBJECTS	Beheer: compileer ongeldige database objecten	Database PL/SQL	Altijd - Altijd actief	0	0	bubs_sct_various.compile_invalid_objects
BUBS_COMPRESS_PRICELIST_LINES	Financieel: comprimeer prijslijst regels	Database PL/SQL	Altijd - Altijd actief	0	0	bubs_sct_various.compress_pricelist_lines (:p_proef_c , :p_pjt_code)
BUBS_COMPRESS_TEXT_INDEX	Beheer: optimaliseer opslag van tekst index	Database PL/SQL	Altijd - Altijd actief	0	0	bubs_sct_documenten.optimize_index
BUBS_COPY_PRICELIST_LINES	Financieel: kopieer prijslijst regels	Database PL/SQL	Altijd - Altijd actief	0	0	bubs_sct_various.copy_pricelist_lines (:p_proef_c , :p_pjt_code , to_date(:p_peildatum, 'dd-mm-yyyy') , to_date(:p_new_datum_geldig_vanaf, 'dd-mm-yyyy') , to_date(:p_new_datum_geldig_tot, 'dd-mm-yyyy') , :p_usp_code , :p_offset_sorteer_volgorde , :p_multiplier)
BUBS_DB_EXP	Beheer: exporteer database	System Shell	Altijd - Altijd actief	0	0	bubs_sct_various.get_code_db_expdp (bubs#instellingen.get_backup_directory || '-' || to_char(:bjb_id))
BUBS_DEV_BL	Ontwikkeling: werk bedrijfslaag bij	Database PL/SQL	Altijd - Altijd actief	0	0	bubs_sct_generate.run
BUBS_DUMP_PJT_AS_XML	Beheer: dump projecten als XML	Database PL/SQL	Altijd - Altijd actief	0	0	bubs_sct_various.dump_pjt_as_xml
BUBS_EMPTY_INTERFACES	Beheer: verwijder alle gegevens uit de ERP interface tabellen.	Database PL/SQL	Altijd - Altijd actief	0	0	bubs_sct_various.empty_interface_tables
BUBS_EMPTY_RECYCLEBIN	Beheer: verwijder verouderde tabellen uit prullenbak	Database PL/SQL	Altijd - Altijd actief	0	0	bubs_sct_various.purge_recyclebin
BUBS_ETL_GEOCODE	Beheer: Geocodeer locaties	Java Class	Altijd - Altijd actief	0	0	com.invantive.script.ETL

BUBS_EXACT_ONLINE_GET_TRANS	Exact Online: Ophalen boekingen uit Exact Online	Database PL/SQL	Altijd - Altijd actief	0	0	begin
						bubs#background_jobs.print_title('{res:bubs_title_exact_online_get_gl_lines}');
						--
						bubs#background_jobs.submit('BUBS_RUN_ETL', p_bjb_omschrijving =>
						bubs#vertalingen.translate_keys('{res:bubs_title_exact_online_get_gl_lines}'));
						bubs#background_jobs.set_parameter('p_etl_file', '../etl/exactonline2bubs.transactions.kjb');
						bubs#background_jobs.finish_parameter_entry();
						bubs#background_jobs.wait_for_finish_all_child_jobs;
						end;

BUBS_EXACT_ONLINE_OUT_INVOICES	Exact Online: Extractie verkoopfacturen	Database PL/SQL	Altijd - Altijd actief	0	0	bubs_interface_exact_online_p.extract_invoices (p_pjt_code => :p_pjt_code , p_lvr_code => :p_lvr_code , p_pgp_code => :p_pgp_code , p_lvr_pe_code => :p_lvr_pe_code , p_gbr_amr_naam => :p_gbr_amr_naam , p_gbr_por_naam => :p_gbr_por_naam , p_pjt_rapportage_groep => :p_pjt_rapportage_groep , p_pjt_klassificatie => :p_pjt_klassificatie , p_incl_0_bedragen => itgen_utilities.char2bool(:p_incl_0_bedragen_c) , p_proef_c => :p_proef_c)

Create or change

Add
New

Code *
Description *
Type of Program * ● Database PL/SQL ○ Java Class ○ System Shell
Working Schedule * Select Value
Required Capacity Scheduler * ● Any ○ Long running, low priority ○ Message queueing, high priority ○ Long running, high priority
#Days to Keep
#Versions to Keep
Runs Alone (Systemwide) ☐
Runs Alone ☐
Rerun on Success ☐
Rerun on Warning ☐
Rerun on Error ☐
Rerun Every (sec)
MIME Type Output
MIME Type Log File
Executable Program *
Program is Expression ☐

Statistics

Number of Executions
Total Execution Time (sec)
Minimum Execution Time (sec)
Maximum Execution Time (sec)

Script Parameters (0)

No records

Code	Description	Sort Direction	Required	Display	Default Value Expression

Create or change

Add
New

Code *
Description *
Sort Direction *
Required ☐
Display ☑

The meaning of the entry fields is:

Code	The unique code of the script.
Description	The description of the script.
Type of Program	The type of program, including: • Oracle PL/SQL; for executing database packages, ideally suited for database changes. • JJava Class; for executing a Java program, ideally suited for executing mathematically intensive or non-database processes. • System Shell; for executing everything that cannot be executed as Oracle PL/SQL or Java class.
Required Capacity Scheduler	The required skills of the scheduler to be allowed to process background jobs based on this script.
# Days to Keep	The minimum amount of days after which the background jobs based on this script may be automatically removed.
# Versions to Keep	The minimum amount of versions after which the background jobs based on this script may be automatically removed. The oldest versions are deleted first.
Runs Alone	The maximum number of simultaneously running background jobs based on this script is only one, when checked.
Rerun on Success	A successfully completed background job based on this script will automatically start again when checked.
Rerun on Warning	When a background job based on this script was completed with a warning, it will automatically start again when checked.
Rerun on Error	When a background job based on this script was completed with an error based on this script it is automatically restarted when checked.
Rerun Every (sec)	The amount of time in seconds after which a background job based on this script will automatically be requested, if one of the options 'Rerun on Success ', 'Rerun on Warning' and/or 'Rerun on Error' is checked.
MIME Type Output	The MIME type of the output of this script, for example 'text/html'.
MIME-type Log File	The MIME type of the log output of this script, for example 'text/html'.
Executable Program	The name of the executable program or the code of the script to be executed in case of Oracle PL/SQL. The following variables in the code are replaced by their respective values during the execution of the background script as a background process: • :bjb_id: ID of the background process. • :bjb_seq: number of the background process. • :sdr_code: code of the background planner. • :sdr_omschrijving: description of the background planner. • :gbr_naam: user that requested the background process.
Program is Expression	Indicates that the program text is a SQL expression when checked
Code	The unique code of the script parameters.
Description	Description of the script parameters.
Sort Order	Numerical value that determines the order in which the script parameters will appear in an entry form.
Required	Indicates if it is obliged to specify a value for the script parameter.

The meaning of the other fields:

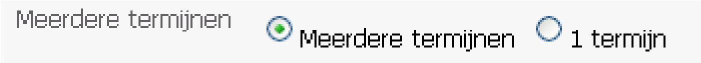
Number of Executions	The total amount of finished background jobs that were based on this script.
Total Execution Time (sec)	The total time in seconds that background jobs have run, based on this script.
Minimum Execution Time (sec)	The minimum time in seconds that a background job has run, based on this script.
Maximum Execution Time (sec)	The minimum time in seconds that a background job has run, based on this script.

Scripts of the category 'System Shell' are executed with the applicable system shell (command.com for Windows 95, cmd.exe for other Windows versions and /bin/ksh for UNIX and Linux).

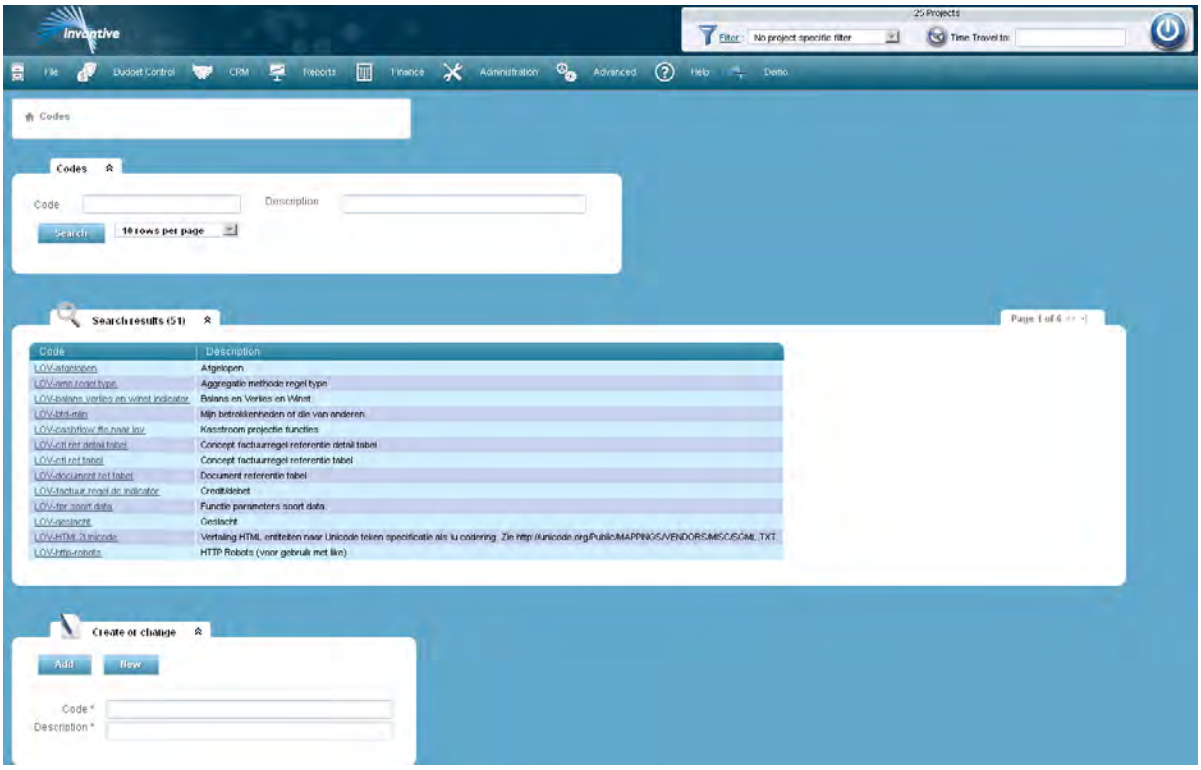
Codes

In this form you can register and change codes.

A code is a list of values that belong to a common denominator. They are widely used in application development to construct ‘domains’. A domain, for example, can be used to store a list of values for a field. For example the screen ‘Revenues’ shows a code list for the number of periods.


Meerdere termijnen
● Meerdere termijnen
○ 1 termijn

The registration of codes is a typical activity for application developers. See the warning under Application Development 272.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Codes
Codes
Code
Description
Search
10 rows per page
Search results (51)
Page 1 of 6
Create or change
Add
New
Code *
Description *

Code	Description
LOV-afgelopen	Afgelopen
LOV-amo regel type	Aggregatie methode regel type
LOV-balans verlies en winst indicator	Balans en Verlies en Winst
LOV-btd-min	Mijn betrokkenheden of die van anderen
LOV-cashflow ffo naar lov	Kasstroom projectie functies
LOV-cfi ref detail tabel	Concept factuurregel referentie detail tabel
LOV-cfi ref tabel	Concept factuurregel referentie tabel
LOV-document ref tabel	Document referentie tabel
LOV-factuur regel dc indicator	Credit/debet
LOV-fpr soort data	Functie parameters soort data
LOV-geslacht	Geslacht
LOV-HTML 2 unicode	Vertaling HTML entiteiten naar Unicode teken specificatie als \u codering. Zie http://unicode.org/Public/MAPPINGS/VENDORS/MISC/SGML.TXT
LOV-http-robots	HTTP Robots (voor gebruik met like)

The meaning of the entry fields is:

Code	The code referring to the code list.
Description	The description of the code list.

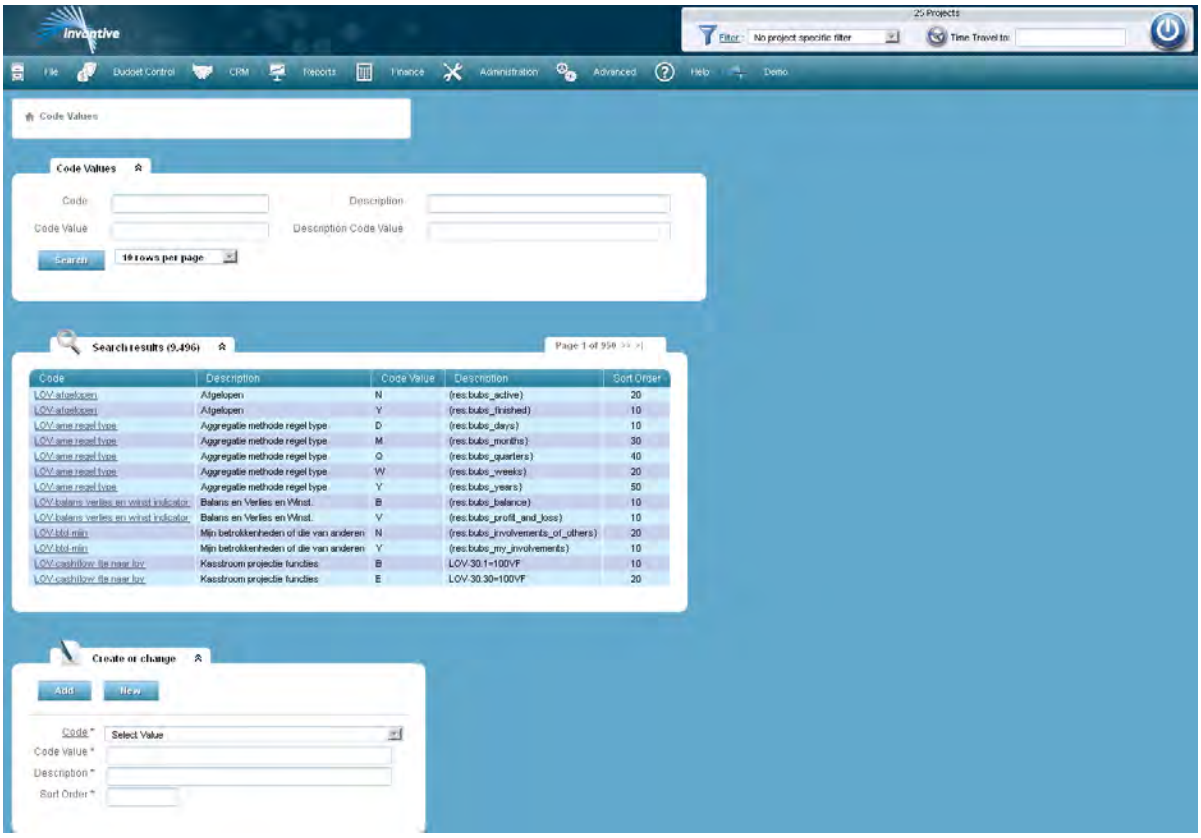
Code Values

In this screen you can register and change code values.

A code is a list of values that belong to a common denominator. They are widely used in application development to construct ‘domains’. A domain, for example, can be used to store a list of values for a field. For example the screen ‘Revenues’ shows a code list for the number of periods.

Use the screen Codes 317 to register codes and consequently use this screen to register the individual values.

The registration of code values is a typical activity for application developers. See the warning under Application Development 272.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Code Values
Code Values
Code
Description
Code Value
Description Code Value
Search
10 rows per page
Search results (9.496)
Page 1 of 950 >> >|
Create or change
Add
New

Code	Description	Code Value	Description	Sort Order
LOV-afgelopen	Afgelopen	N	(res:bubs_active)	20
LOV-afgelopen	Afgelopen	Y	(res:bubs_finished)	10
LOV-ame regel type	Aggregatie methode regel type	D	(res:bubs_days)	10
LOV-ame regel type	Aggregatie methode regel type	M	(res:bubs_months)	30
LOV-ame regel type	Aggregatie methode regel type	Q	(res:bubs_quarters)	40
LOV-ame regel type	Aggregatie methode regel type	W	(res:bubs_weeks)	20
LOV-ame regel type	Aggregatie methode regel type	Y	(res:bubs_years)	50
LOV-balans verlies en winst indicator	Balans en Verlies en Winst.	B	(res:bubs_balance)	10
LOV-balans verlies en winst indicator	Balans en Verlies en Winst.	V	(res:bubs_profit_and_loss)	10
LOV-bbd-mijn	Mijn betrokkenheden of die van anderen	N	(res:bubs_involvements_of_others)	20
LOV-bbd-mijn	Mijn betrokkenheden of die van anderen	Y	(res:bubs_my_involvements)	10
LOV-cashflow fte naar lov	Kasstroom projectie functies	B	LOV-30.1=100VF	10
LOV-cashflow fte naar lov	Kasstroom projectie functies	E	LOV-30.30=100VF	20

Code * Select Value
Code Value *
Description *
Sort Order *

The meaning of the entry fields is:

Code	The code referring to the code list.
Code Value	The code of the individual value, for example 'K'.
Description	The description of the code value, for example 'Costs'.
Sort Order	A numeric value used for sorting the codes when they are shown in a list box in a screen.

The meaning of the other fields:

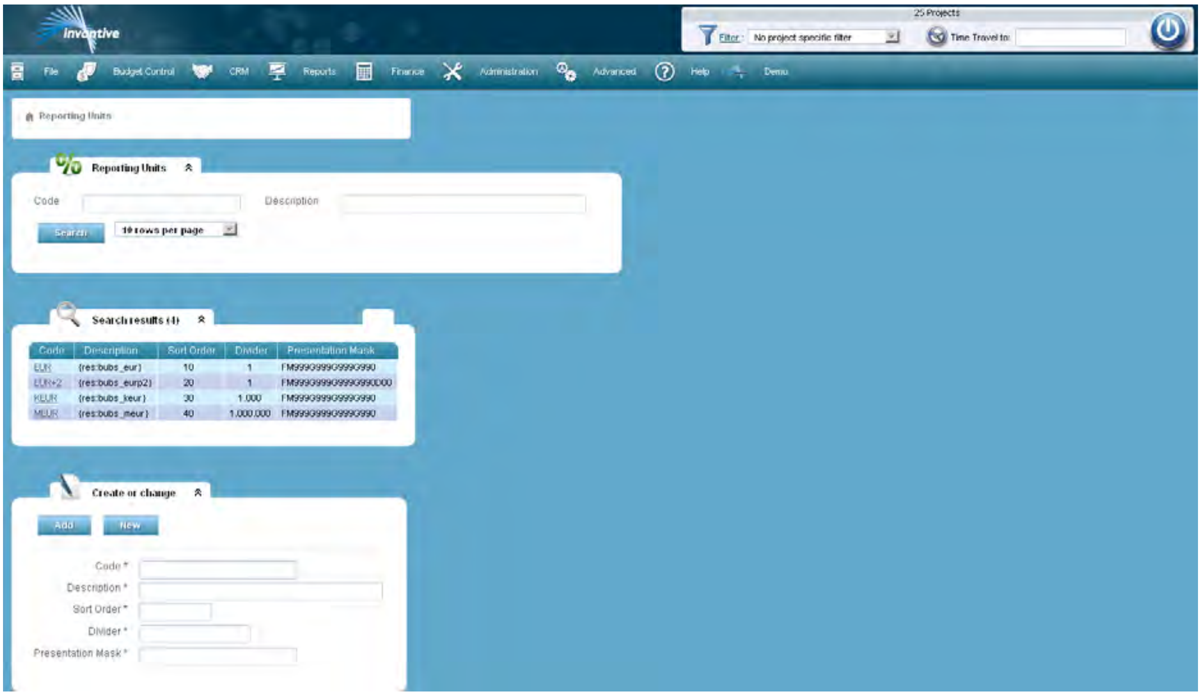
Description	The description of the code list.

Reporting Units

In this screen you can register and change reporting units.

A reporting unit is a constant number, used to divide amounts in reports. Often reports contain large numbers, and small details are not important. By using another reporting unit, such amounts can be expressed, for example, in millions.

The registration of reporting units is a typical activity for application developers. See the warning under Application Development 272.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Reporting Units
Reporting Units
Code
Description
Search
10 rows per page
Search results (4)
Create or change
Add
New
Code *
Description *
Sort Order *
Divider *
Presentation Mask *

Code	Description	Sort Order	Divider	Presentation Mask
EUR	{res:bubs_eur}	10	1	FM999G999G999G990
EUR+2	{res:bubs_eurp2}	20	1	FM999G999G999G990D00
KEUR	{res:bubs_keur}	30	1.000	FM999G999G999G990
MEUR	{res:bubs_meur}	40	1.000.000	FM999G999G999G990

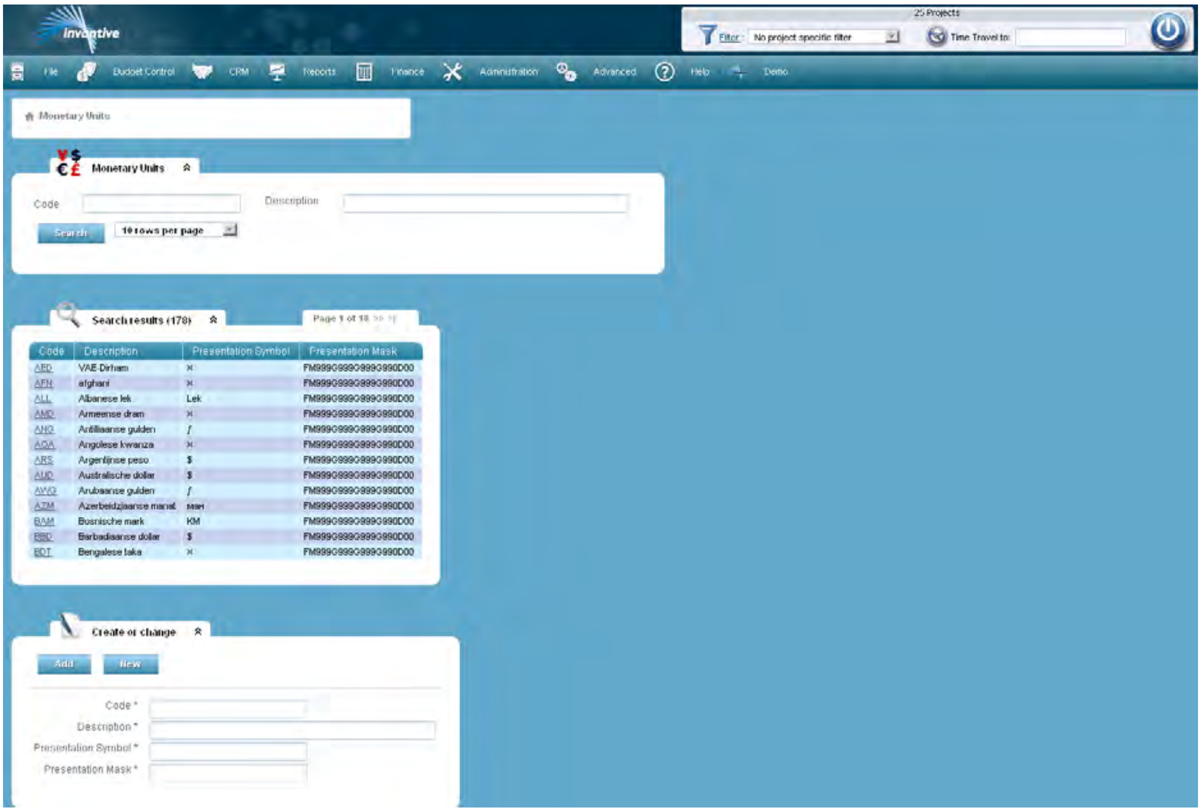
The meaning of the entry fields is:

Code	The code used to refer to the reporting unit.
Description	The description. Typical descriptions consist of the multiplication factor according to the ISO system (K for 1.000, M for 1.000.000), followed by the currency unit (EUR, USD). For multi-language purposes, the program usually refers to a 'resource'. This resource will be translated during the execution of the application. A resource has the format left accolade, 'res:' followed by a key which must reoccur in the screen and is closed with a right accolade.Translations 325 and ends with '}'.
Sort Order	A numeric value on which the reporting units are sorted when they are shown in a list box in a screen.
Divider	The constant by which the amounts in reports are divided in order to end up with a report with this type of reporting unit.
Presentation mask	A pattern that describes how the amount must be displayed after division by the 'divider'. The presentation mask consists of a number of characters, of which each character describes exactly one character in the presentation. The following characters are possible in the presentation mask: • G: the grouping character (in Europe this is a point '.'). • D: the decimal character (in Europe this is a comma ','). • 9: the number at this position before or after the comma, in case before the number at least one other number is placed other than 0. • 0: the number at this position before or after the comma. A presentation mask '990D00' gives the following results: '12.3' will become '12.30' '0' becomes '0.00''

Monetary Units

This screen allows you to record and change currencies.

Registering monetary units is a typical activity for application developers. See the warning under Application Development 272.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Monetary Units
Monetary Units
Code
Description
Search
10 rows per page
Search results (178)
Page 1 of 18 >> >|
Create or change
Add
New
Code *
Description *
Presentation Symbol *
Presentation Mask *

Code	Description	Presentation Symbol	Presentation Mask
AED	VAE-Dirham	¤	FM999G999G999G990D00
AFN	afghani	¤	FM999G999G999G990D00
ALL	Albanese lek	Lek	FM999G999G999G990D00
AMD	Armeense dram	¤	FM999G999G999G990D00
ANG	Antilliaanse gulden	ƒ	FM999G999G999G990D00
AOA	Angolese kwanza	¤	FM999G999G999G990D00
ARS	Argentijnse peso	$	FM999G999G999G990D00
AUD	Australische dollar	$	FM999G999G999G990D00
AWG	Arubaanse gulden	ƒ	FM999G999G999G990D00
AZM	Azerbeidzjaanse manat	ман	FM999G999G999G990D00
BAM	Bosnische mark	KM	FM999G999G999G990D00
BBD	Barbadiaanse dollar	$	FM999G999G999G990D00
BDT	Bengalese taka	¤	FM999G999G999G990D00

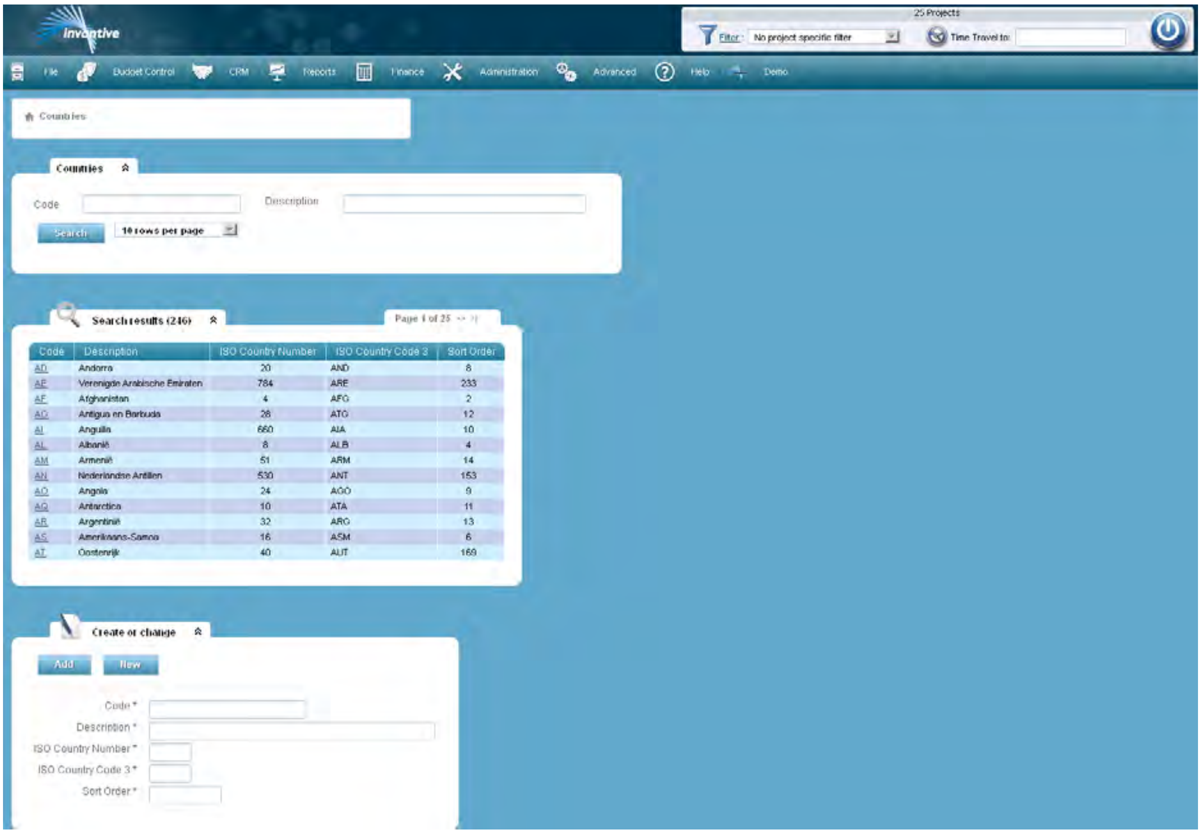
The meaning of the entry fields is:

Code	The ISO 4217 currency code. This is the international standard that defines three-letter codes for currencies.
Description	The description of the code.
Presentation Symbol	Defines the character which is used as a currency symbol. Some currencies do not have their own character. In that case, often the symbol '¤' is used.
Presentation mask	A pattern that describes how the amount must be displayed after division by the 'divider'. The presentation mask consists of a number of characters, of which each character describes exactly one character in the presentation. The following characters are possible in the presentation mask: • G: the grouping character (in Europe this is a point '.'). • D: the decimal character (in Europe this is a comma ','). • 9: the number at this position before or after the comma, in case before the number at least one other number is placed other than 0. • 0: the number at this position before or after the comma. A presentation mask '990D00' gives the following results: '12.3' will become '12.30' '0' will become '0.00'

Countries

this form you can register and change countries.

The registration of countries is a typical activity for application developers.. See the warning under Application Development 272.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Countries
Countries
Code
Description
Search
10 rows per page
Search results (246)
Page 1 of 25
Create or change
Add
New
Code *
Description *
ISO Country Number *
ISO Country Code 3 *
Sort Order *

Code	Description	ISO Country Number	ISO Country Code 3	Sort Order
AD	Andorra	20	AND	8
AE	Verenigde Arabische Emiraten	784	ARE	233
AF	Afghanistan	4	AFG	2
AG	Antigua en Barbuda	28	ATG	12
AI	Anguilla	660	AIA	10
AL	Albanië	8	ALB	4
AM	Armenië	51	ARM	14
AN	Nederlandse Antillen	530	ANT	153
AO	Angola	24	AGO	9
AQ	Antarctica	10	ATA	11
AR	Argentinië	32	ARG	13
AS	Amerikaans-Samoa	16	ASM	6
AT	Oostenrijk	40	AUT	169

The meaning of the entry fields is:

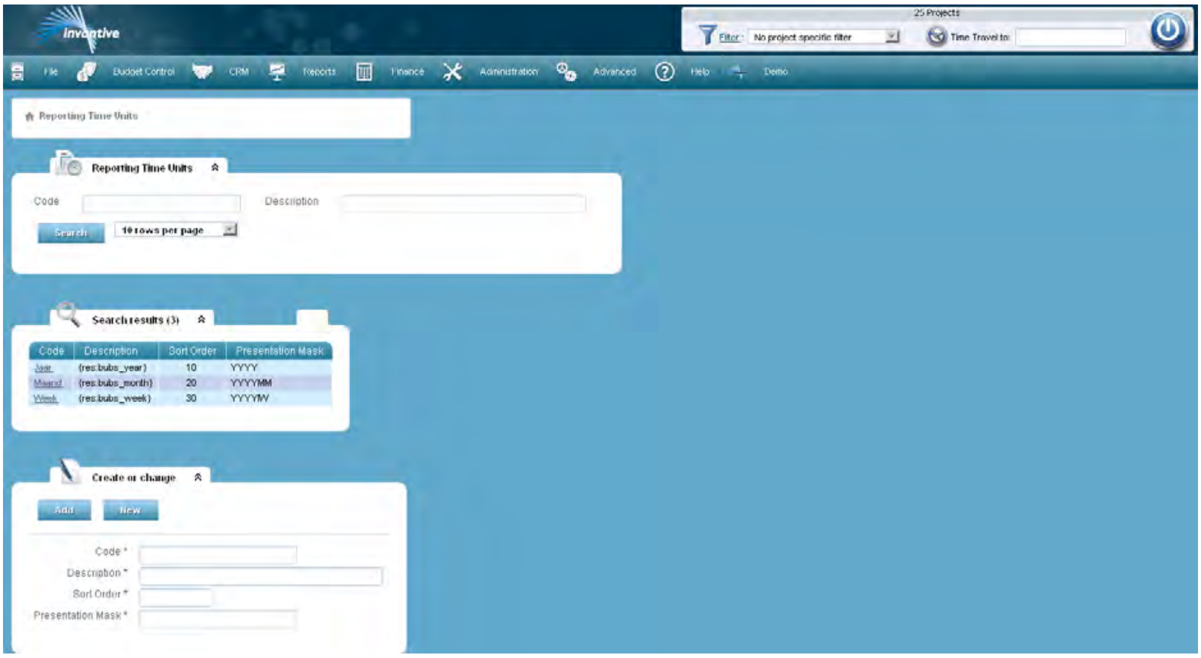
Code	The tw o letter code of the country according to ISO 3194.
Description	The name of the country.
ISO-Land Number	Unique country number according to ISO 3166.
ISO-Land Code 3	Unique three letter country codes according to ISO 3166.
Sort Order	Indicates the position of a country w hen a country is displayed in a list box.

Reporting Time Units

In this screen you can register and change reporting time units.

A reporting time unit is a breakdown of time-dependent data in a time range.

The registration of reporting time units is a typical activity for application developers. See the warning under Application Development 272.


Invantive
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
25 Projects
Filter: No project specific filter
Time Travel to:
Reporting Time Units
Reporting Time Units
Code
Description
Search
10 rows per page
Search results (3)
Create or change
Add
New
Code *
Description *
Sort Order *
Presentation Mask *

Code	Description	Sort Order	Presentation Mask
Jaar	{res:bubs_year}	10	YYYY
Maand	{res:bubs_month}	20	YYYYMM
Week	{res:bubs_week}	30	YYYYIW

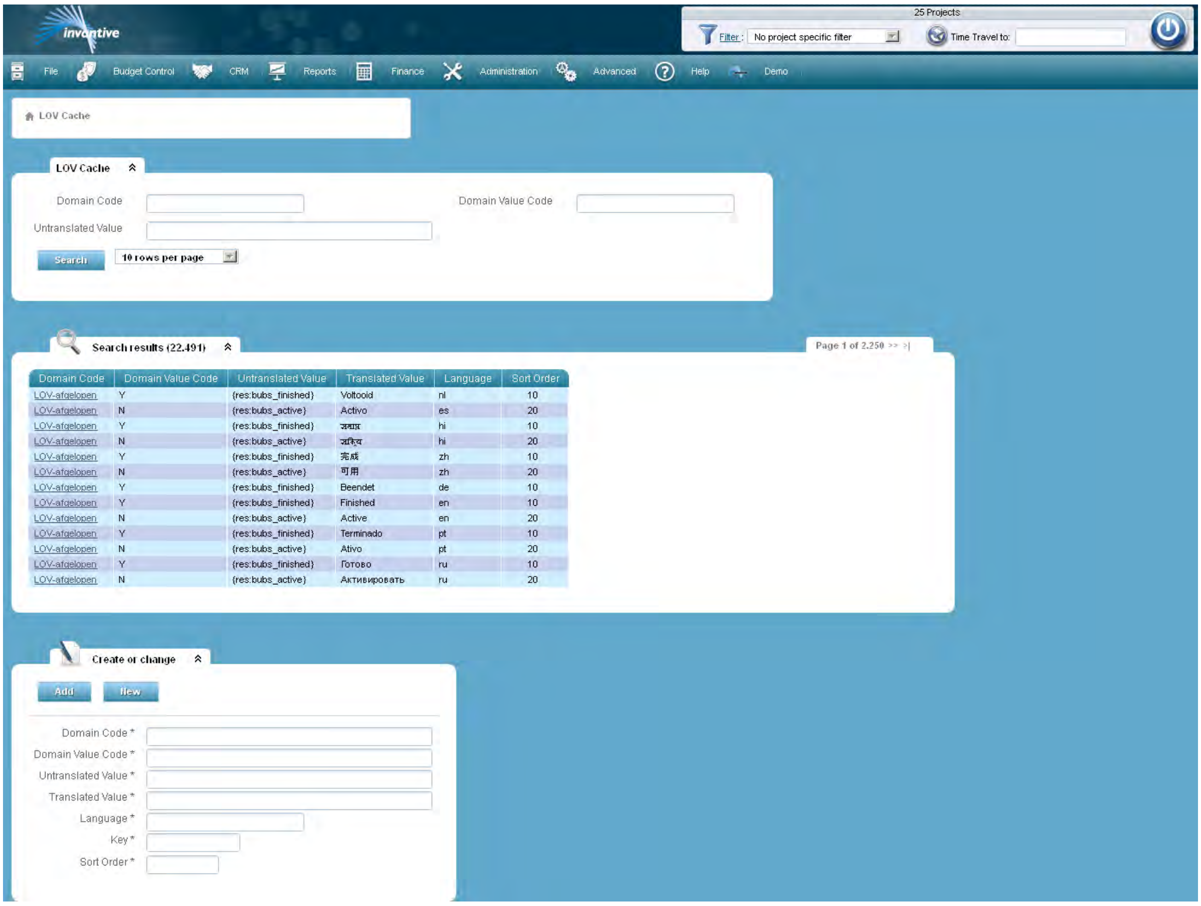
The meaning of the entry fields is:

Code	The code used to refer to the reporting time unit.
Description	The description.
Sort Order	A numeric value on which the reporting time units are sorted when they are shown in a list box in a screen.
Presentation mask	A pattern describing how a date must be shown. The presentation mask consists of a number of characters, of which each character describes exactly one character in the presentation. The following characters are possible in the presentation mask: • 'YYYY': the year in four figures. • 'MM' the number of the month in two digits. • 'DD' the number of the day in two digits. • 'YY': the last two digits of the year. • 'RR': The last two digits of the year. The first 2 digits of the year will be determined by the current date of the database server and the figures provided. Four rules will be applied: ▪ If the provided year is between 00 and 49 and the current year is between 00 and 49 than the century will be the same as the current century. For example, if the provided year is 15 and the current year is 2005, the result will be 2015. ▪ If the provided year is between 50 and 99 and the current year is between 00 and 49 than the century is the current century minus one. For example, if the provided year is 75 and the current year is 2005, the result will be 1975. ▪ If the provided year is between 00 and 49 years and the current year is between 50 and 99 than the century is the current century plus one. For example, if the provided year is 15 and the current year is 2075, then the result will be 2115 ▪ If the provided year is between 50 and 99 years and the current year between 50 and 99 than the century is the same as the current century. For example, if the provided year is 55 years and the current year 2075, the result will be 2055. • 'RRR': The year in four-digits whereby the first 2 digits of the year will be determined with the current date on the database server and the figures provided. Four rules will be applied (see 'RR'). • 'IW': The week number of the year based on the ISO 8601 standard. • etc. (see SQL language reference Oracle).

LOV Cache

In this screen you can register and change values for the lov-cache.

The 'list of values'-cache contains translated choice list values.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
LOV Cache
LOV Cache
Domain Code
Domain Value Code
Untranslated Value
Search
10 rows per page
Search results (22.491)
Page 1 of 2.250 >> >|
Create or change
Add
New
Domain Code *
Domain Value Code *
Untranslated Value *
Translated Value *
Language *
Key *
Sort Order *

Domain Code	Domain Value Code	Untranslated Value	Translated Value	Language	Sort Order
LOV-afgelopen	Y	{res:bubs_finished}	Voltooid	nl	10
LOV-afgelopen	N	{res:bubs_active}	Activo	es	20
LOV-afgelopen	Y	{res:bubs_finished}	समाप्त	hi	10
LOV-afgelopen	N	{res:bubs_active}	सक्रिय	hi	20
LOV-afgelopen	Y	{res:bubs_finished}	完成	zh	10
LOV-afgelopen	N	{res:bubs_active}	可用	zh	20
LOV-afgelopen	Y	{res:bubs_finished}	Beendet	de	10
LOV-afgelopen	Y	{res:bubs_finished}	Finished	en	10
LOV-afgelopen	N	{res:bubs_active}	Active	en	20
LOV-afgelopen	Y	{res:bubs_finished}	Terminado	pt	10
LOV-afgelopen	N	{res:bubs_active}	Ativo	pt	20
LOV-afgelopen	Y	{res:bubs_finished}	Готово	ru	10
LOV-afgelopen	N	{res:bubs_active}	Активировать	ru	20

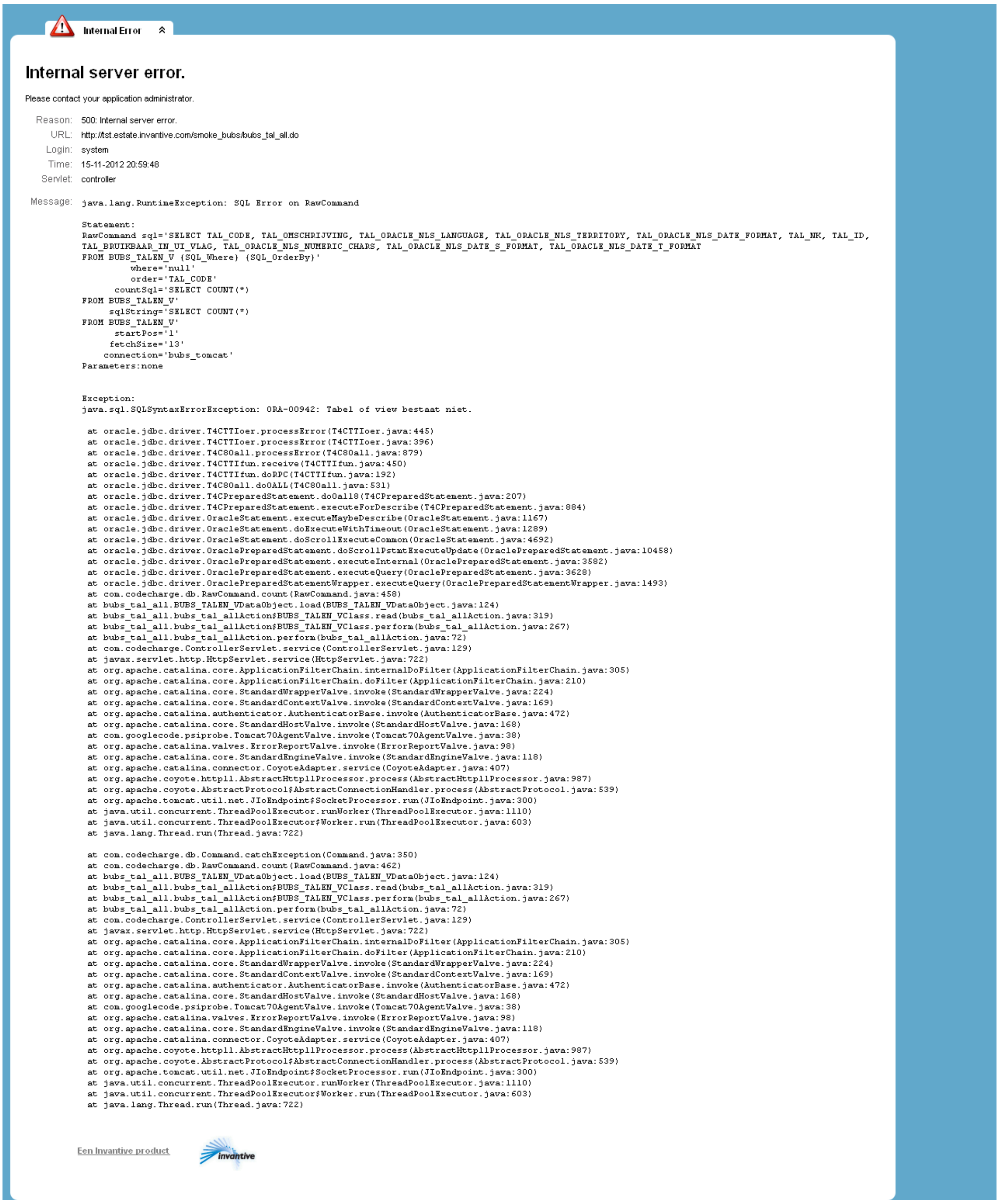
The meaning of the entry fields is:

Domain Code	Reference to a domain code as registered in view BUBS_CODES_V.CDE_CODE.
Domain Value Code	Reference to a domain value code as registered in BUBS_CODE_VALUES_V.CWE_CODE.
Untranslated Value	Reference to an untranslated value as registered in BUBS_CODE_VALUES_V.CWE_DESCRIPTION.
Translated Value	Translation based on the language and the untranslated value.
Language	Reference to a language code as registered in BUBS_LANGUAGES_V.TAL_CODE.
Key	Key Value as registered in BUBS_CODE_VALUES
Sort Order	A numeric value where the translated values are sorted on if several are shown in a choice list.

Languages

In this form you can register and change languages.

The registration of languages is a typical activity for application developers. See the warning under Application Development 272.



Internal server error.

Please contact your application administrator.

Reason: 500: Internal server error.
URL: http://tst.estate.invantive.com/smoke_bubs/bubs_tal_all.do
Login: system
Time: 15-11-2012 20:59:48
Servlet: controller

Message:

```
java.lang.RuntimeException: SQL Error on RawCommand

Statement:
RawCommand sql='SELECT TAL_CODE, TAL_OMSCHRIJVING, TAL_ORACLE_NLS_LANGUAGE, TAL_ORACLE_NLS_TERRITORY, TAL_ORACLE_NLS_DATE_FORMAT, TAL_NK, TAL_ID,
TAL_BRUIKBAAR_IN_UI_VLAG, TAL_ORACLE_NLS_NUMERIC_CHARS, TAL_ORACLE_NLS_DATE_S_FORMAT, TAL_ORACLE_NLS_DATE_T_FORMAT
FROM BUBS_TALEN_V {SQL_Where} {SQL_OrderBy}'
         where='null'
         order='TAL_CODE'
      countSql='SELECT COUNT(*)
FROM BUBS_TALEN_V'
     sqlString='SELECT COUNT(*)
FROM BUBS_TALEN_V'
      startPos='1'
     fetchSize='13'
    connection='bubs_tomcat'
Parameters:none


Exception:
java.sql.SQLSyntaxErrorException: ORA-00942: Tabel of view bestaat niet.

 at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:445)
 at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:396)
 at oracle.jdbc.driver.T4C8Oall.processError(T4C8Oall.java:879)
 at oracle.jdbc.driver.T4CTTIfun.receive(T4CTTIfun.java:450)
 at oracle.jdbc.driver.T4CTTIfun.doRPC(T4CTTIfun.java:192)
 at oracle.jdbc.driver.T4C8Oall.doOALL(T4C8Oall.java:531)
 at oracle.jdbc.driver.T4CPreparedStatement.doOall8(T4CPreparedStatement.java:207)
 at oracle.jdbc.driver.T4CPreparedStatement.executeForDescribe(T4CPreparedStatement.java:884)
 at oracle.jdbc.driver.OracleStatement.executeMaybeDescribe(OracleStatement.java:1167)
 at oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:1289)
 at oracle.jdbc.driver.OracleStatement.doScrollExecuteCommon(OracleStatement.java:4692)
 at oracle.jdbc.driver.OraclePreparedStatement.doScrollPstmtExecuteUpdate(OraclePreparedStatement.java:10458)
 at oracle.jdbc.driver.OraclePreparedStatement.executeInternal(OraclePreparedStatement.java:3582)
 at oracle.jdbc.driver.OraclePreparedStatement.executeQuery(OraclePreparedStatement.java:3628)
 at oracle.jdbc.driver.OraclePreparedStatementWrapper.executeQuery(OraclePreparedStatementWrapper.java:1493)
 at com.codecharge.db.RawCommand.count(RawCommand.java:458)
 at bubs_tal_all.BUBS_TALEN_VDataObject.load(BUBS_TALEN_VDataObject.java:124)
 at bubs_tal_all.bubs_tal_allAction$BUBS_TALEN_VClass.read(bubs_tal_allAction.java:319)
 at bubs_tal_all.bubs_tal_allAction$BUBS_TALEN_VClass.perform(bubs_tal_allAction.java:267)
 at bubs_tal_all.bubs_tal_allAction.perform(bubs_tal_allAction.java:72)
 at com.codecharge.ControllerServlet.service(ControllerServlet.java:129)
 at javax.servlet.http.HttpServlet.service(HttpServlet.java:722)
 at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:305)
 at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
 at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:224)
 at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:169)
 at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:472)
 at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:168)
 at com.googlecode.psiprobe.Tomcat70AgentValve.invoke(Tomcat70AgentValve.java:38)
 at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:98)
 at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
 at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:407)
 at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:987)
 at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:539)
 at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:300)
 at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)
 at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)
 at java.lang.Thread.run(Thread.java:722)

 at com.codecharge.db.Command.catchException(Command.java:350)
 at com.codecharge.db.RawCommand.count(RawCommand.java:462)
 at bubs_tal_all.BUBS_TALEN_VDataObject.load(BUBS_TALEN_VDataObject.java:124)
 at bubs_tal_all.bubs_tal_allAction$BUBS_TALEN_VClass.read(bubs_tal_allAction.java:319)
 at bubs_tal_all.bubs_tal_allAction$BUBS_TALEN_VClass.perform(bubs_tal_allAction.java:267)
 at bubs_tal_all.bubs_tal_allAction.perform(bubs_tal_allAction.java:72)
 at com.codecharge.ControllerServlet.service(ControllerServlet.java:129)
 at javax.servlet.http.HttpServlet.service(HttpServlet.java:722)
 at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:305)
 at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
 at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:224)
 at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:169)
 at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:472)
 at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:168)
 at com.googlecode.psiprobe.Tomcat70AgentValve.invoke(Tomcat70AgentValve.java:38)
 at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:98)
 at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
 at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:407)
 at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:987)
 at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:539)
 at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:300)
 at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)
 at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)
 at java.lang.Thread.run(Thread.java:722)
```

The meaning of the entry fields is:

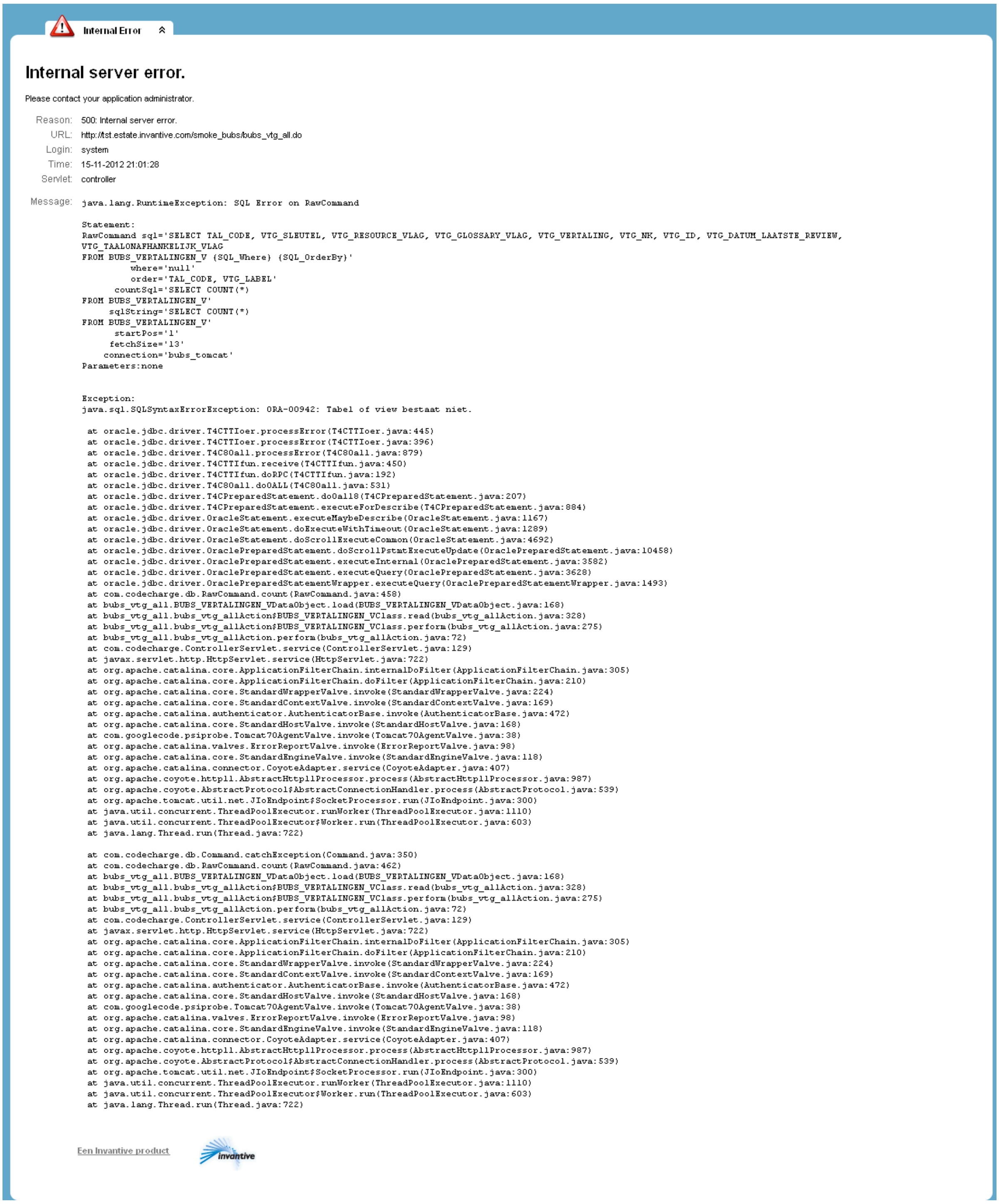
Code	The code used to refer to the language. It is recommended to conform to the international language codes as registered in ISO 639.
Description	The description of the language.
Usable In User Interface	If checked, the language can be used in the user interface.
Database	
NLS Language	The language setting in the database which makes that database errors are displayed in the correct language.
NLS Territory	The region setting in the database which makes that region dependent settings are displayed in a correct way.
NLS Date Format	The desired date format of the database. This should always be 'dd-mm-rrrr hh24:mi:ss'.

	Other date formats are not supported.

Translations

In this form you can register and change translations.

he registration of translations is a typical activity for application developers.. See the warning under Application Development 272.



Internal server error.

Please contact your application administrator.

Reason: 500: Internal server error.
URL: http://tst.estate.invantive.com/smoke_bubs/bubs_vtg_all.do
Login: system
Time: 15-11-2012 21:01:28
Servlet: controller

Message:

```
java.lang.RuntimeException: SQL Error on RawCommand

Statement:
RawCommand sql='SELECT TAL_CODE, VTG_SLEUTEL, VTG_RESOURCE_VLAG, VTG_GLOSSARY_VLAG, VTG_VERTALING, VTG_NK, VTG_ID, VTG_DATUM_LAATSTE_REVIEW,
VTG_TAALONAFHANKELIJK_VLAG
FROM BUBS_VERTALINGEN_V {SQL_Where} {SQL_OrderBy}'
         where='null'
         order='TAL_CODE, VTG_LABEL'
      countSql='SELECT COUNT(*)
FROM BUBS_VERTALINGEN_V'
     sqlString='SELECT COUNT(*)
FROM BUBS_VERTALINGEN_V'
      startPos='1'
     fetchSize='13'
    connection='bubs_tomcat'
Parameters:none


Exception:
java.sql.SQLSyntaxErrorException: ORA-00942: Tabel of view bestaat niet.

 at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:445)
 at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:396)
 at oracle.jdbc.driver.T4C8Oall.processError(T4C8Oall.java:879)
 at oracle.jdbc.driver.T4CTTIfun.receive(T4CTTIfun.java:450)
 at oracle.jdbc.driver.T4CTTIfun.doRPC(T4CTTIfun.java:192)
 at oracle.jdbc.driver.T4C8Oall.doOALL(T4C8Oall.java:531)
 at oracle.jdbc.driver.T4CPreparedStatement.doOall8(T4CPreparedStatement.java:207)
 at oracle.jdbc.driver.T4CPreparedStatement.executeForDescribe(T4CPreparedStatement.java:884)
 at oracle.jdbc.driver.OracleStatement.executeMaybeDescribe(OracleStatement.java:1167)
 at oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:1289)
 at oracle.jdbc.driver.OracleStatement.doScrollExecuteCommon(OracleStatement.java:4692)
 at oracle.jdbc.driver.OraclePreparedStatement.doScrollPstmtExecuteUpdate(OraclePreparedStatement.java:10458)
 at oracle.jdbc.driver.OraclePreparedStatement.executeInternal(OraclePreparedStatement.java:3582)
 at oracle.jdbc.driver.OraclePreparedStatement.executeQuery(OraclePreparedStatement.java:3628)
 at oracle.jdbc.driver.OraclePreparedStatementWrapper.executeQuery(OraclePreparedStatementWrapper.java:1493)
 at com.codecharge.db.RawCommand.count(RawCommand.java:458)
 at bubs_vtg_all.BUBS_VERTALINGEN_VDataObject.load(BUBS_VERTALINGEN_VDataObject.java:168)
 at bubs_vtg_all.bubs_vtg_allAction$BUBS_VERTALINGEN_VClass.read(bubs_vtg_allAction.java:328)
 at bubs_vtg_all.bubs_vtg_allAction$BUBS_VERTALINGEN_VClass.perform(bubs_vtg_allAction.java:275)
 at bubs_vtg_all.bubs_vtg_allAction.perform(bubs_vtg_allAction.java:72)
 at com.codecharge.ControllerServlet.service(ControllerServlet.java:129)
 at javax.servlet.http.HttpServlet.service(HttpServlet.java:722)
 at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:305)
 at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
 at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:224)
 at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:169)
 at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:472)
 at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:168)
 at com.googlecode.psiprobe.Tomcat70AgentValve.invoke(Tomcat70AgentValve.java:38)
 at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:98)
 at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
 at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:407)
 at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:987)
 at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:539)
 at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:300)
 at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)
 at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)
 at java.lang.Thread.run(Thread.java:722)

 at com.codecharge.db.Command.catchException(Command.java:350)
 at com.codecharge.db.RawCommand.count(RawCommand.java:462)
 at bubs_vtg_all.BUBS_VERTALINGEN_VDataObject.load(BUBS_VERTALINGEN_VDataObject.java:168)
 at bubs_vtg_all.bubs_vtg_allAction$BUBS_VERTALINGEN_VClass.read(bubs_vtg_allAction.java:328)
 at bubs_vtg_all.bubs_vtg_allAction$BUBS_VERTALINGEN_VClass.perform(bubs_vtg_allAction.java:275)
 at bubs_vtg_all.bubs_vtg_allAction.perform(bubs_vtg_allAction.java:72)
 at com.codecharge.ControllerServlet.service(ControllerServlet.java:129)
 at javax.servlet.http.HttpServlet.service(HttpServlet.java:722)
 at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:305)
 at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
 at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:224)
 at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:169)
 at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:472)
 at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:168)
 at com.googlecode.psiprobe.Tomcat70AgentValve.invoke(Tomcat70AgentValve.java:38)
 at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:98)
 at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
 at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:407)
 at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:987)
 at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:539)
 at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:300)
 at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)
 at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)
 at java.lang.Thread.run(Thread.java:722)
```

The meaning of the entry fields is:

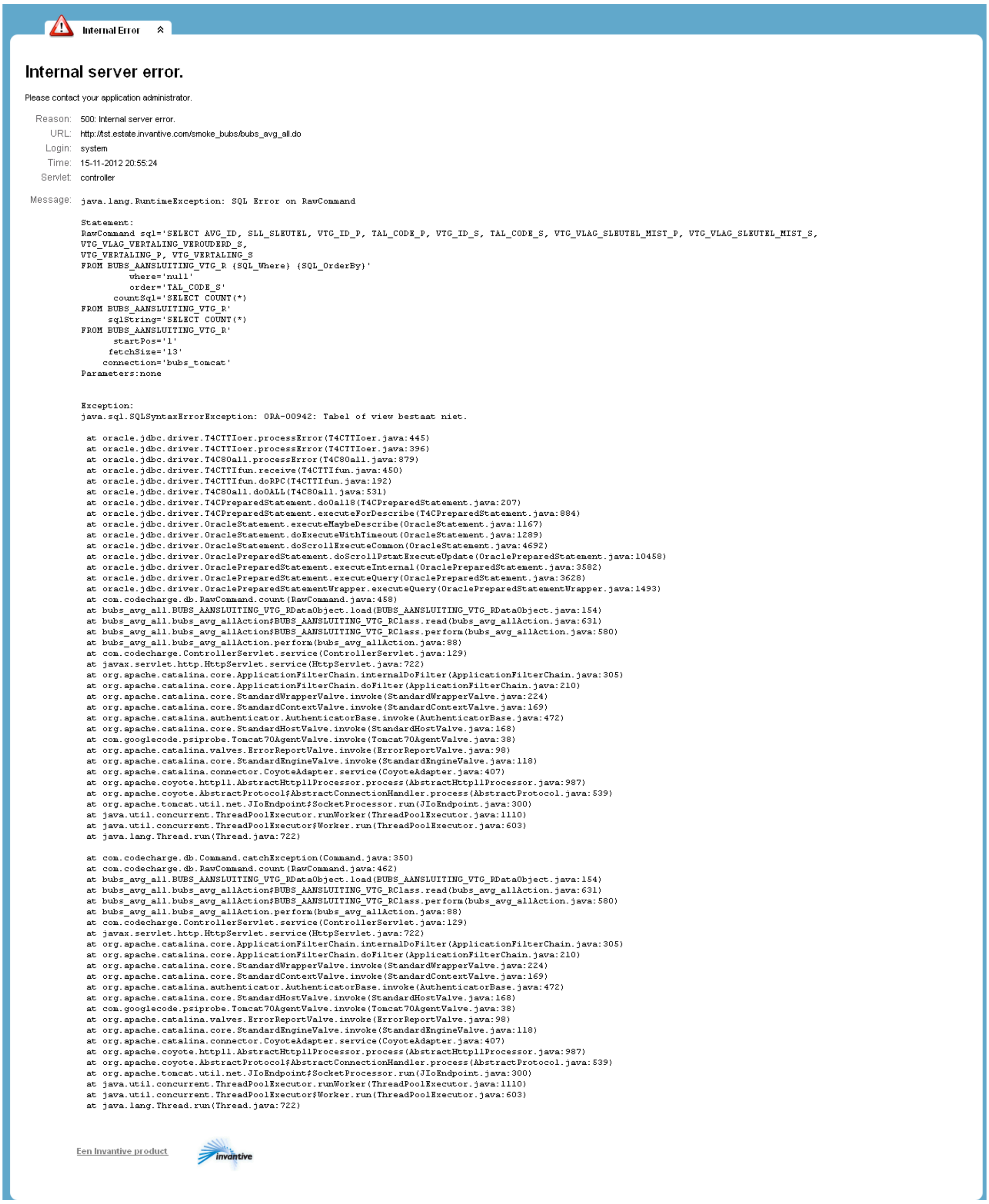
Language	The language of the translation.
Key	The unique identification of the translation. This keyword is also used in the resource for-

	mats betw een '{res:' en '}'.
Include in Resources	The term included in the translation list w hen checked. This translation list is used as a 'translation memory' in the translation of this manual for example.
Include in Glossary	The term is included in the translation list for support of translators w hen checked.
Translation	The translation of the keyw ord in the selected language. You can use '\ u', follow ed by a hexadecimal number of four positions to enter special characters.

Workbench Translations

In this screen you can maintain translations online.

Online maintenance of translations is a typical activity for application developers. See the warning under Application Development 272.



Internal server error.

Please contact your application administrator.

Reason: 500: Internal server error.
URL: http://tst.estate.invantive.com/smoke_bubs/bubs_avg_all.do
Login: system
Time: 15-11-2012 20:55:24
Servlet: controller

Message:

```
java.lang.RuntimeException: SQL Error on RawCommand

Statement:
RawCommand sql='SELECT AVG_ID, SLL_SLEUTEL, VTG_ID_P, TAL_CODE_P, VTG_ID_S, TAL_CODE_S, VTG_VLAG_SLEUTEL_MIST_P, VTG_VLAG_SLEUTEL_MIST_S,
VTG_VLAG_VERTALING_VEROUDERD_S,
VTG_VERTALING_P, VTG_VERTALING_S
FROM BUBS_AANSLUITING_VTG_R {SQL_Where} {SQL_OrderBy}'
          where='null'
          order='TAL_CODE_S'
      countSql='SELECT COUNT(*)
FROM BUBS_AANSLUITING_VTG_R'
     sqlString='SELECT COUNT(*)
FROM BUBS_AANSLUITING_VTG_R'
      startPos='1'
     fetchSize='13'
    connection='bubs_tomcat'
Parameters:none


Exception:
java.sql.SQLSyntaxErrorException: ORA-00942: Tabel of view bestaat niet.

 at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:445)
 at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:396)
 at oracle.jdbc.driver.T4C80all.processError(T4C80all.java:879)
 at oracle.jdbc.driver.T4CTTIfun.receive(T4CTTIfun.java:450)
 at oracle.jdbc.driver.T4CTTIfun.doRPC(T4CTTIfun.java:192)
 at oracle.jdbc.driver.T4C80all.doOALL(T4C80all.java:531)
 at oracle.jdbc.driver.T4CPreparedStatement.doOall8(T4CPreparedStatement.java:207)
 at oracle.jdbc.driver.T4CPreparedStatement.executeForDescribe(T4CPreparedStatement.java:884)
 at oracle.jdbc.driver.OracleStatement.executeMaybeDescribe(OracleStatement.java:1167)
 at oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:1289)
 at oracle.jdbc.driver.OracleStatement.doScrollExecuteCommon(OracleStatement.java:4692)
 at oracle.jdbc.driver.OraclePreparedStatement.doScrollPstmtExecuteUpdate(OraclePreparedStatement.java:10458)
 at oracle.jdbc.driver.OraclePreparedStatement.executeInternal(OraclePreparedStatement.java:3582)
 at oracle.jdbc.driver.OraclePreparedStatement.executeQuery(OraclePreparedStatement.java:3628)
 at oracle.jdbc.driver.OraclePreparedStatementWrapper.executeQuery(OraclePreparedStatementWrapper.java:1493)
 at com.codecharge.db.RawCommand.count(RawCommand.java:458)
 at bubs_avg_all.BUBS_AANSLUITING_VTG_RDataObject.load(BUBS_AANSLUITING_VTG_RDataObject.java:154)
 at bubs_avg_all.bubs_avg_allAction$BUBS_AANSLUITING_VTG_RClass.read(bubs_avg_allAction.java:631)
 at bubs_avg_all.bubs_avg_allAction$BUBS_AANSLUITING_VTG_RClass.perform(bubs_avg_allAction.java:580)
 at bubs_avg_all.bubs_avg_allAction.perform(bubs_avg_allAction.java:88)
 at com.codecharge.ControllerServlet.service(ControllerServlet.java:129)
 at javax.servlet.http.HttpServlet.service(HttpServlet.java:722)
 at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:305)
 at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
 at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:224)
 at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:169)
 at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:472)
 at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:168)
 at com.googlecode.psiprobe.Tomcat70AgentValve.invoke(Tomcat70AgentValve.java:38)
 at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:98)
 at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
 at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:407)
 at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:987)
 at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:539)
 at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:300)
 at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)
 at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)
 at java.lang.Thread.run(Thread.java:722)

 at com.codecharge.db.Command.catchException(Command.java:350)
 at com.codecharge.db.RawCommand.count(RawCommand.java:462)
 at bubs_avg_all.BUBS_AANSLUITING_VTG_RDataObject.load(BUBS_AANSLUITING_VTG_RDataObject.java:154)
 at bubs_avg_all.bubs_avg_allAction$BUBS_AANSLUITING_VTG_RClass.read(bubs_avg_allAction.java:631)
 at bubs_avg_all.bubs_avg_allAction$BUBS_AANSLUITING_VTG_RClass.perform(bubs_avg_allAction.java:580)
 at bubs_avg_all.bubs_avg_allAction.perform(bubs_avg_allAction.java:88)
 at com.codecharge.ControllerServlet.service(ControllerServlet.java:129)
 at javax.servlet.http.HttpServlet.service(HttpServlet.java:722)
 at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:305)
 at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
 at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:224)
 at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:169)
 at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:472)
 at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:168)
 at com.googlecode.psiprobe.Tomcat70AgentValve.invoke(Tomcat70AgentValve.java:38)
 at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:98)
 at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
 at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:407)
 at org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Processor.java:987)
 at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:539)
 at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:300)
 at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)
 at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)
 at java.lang.Thread.run(Thread.java:722)
```

The meaning of the entry fields is:

Target translation	The translation of the source translation.

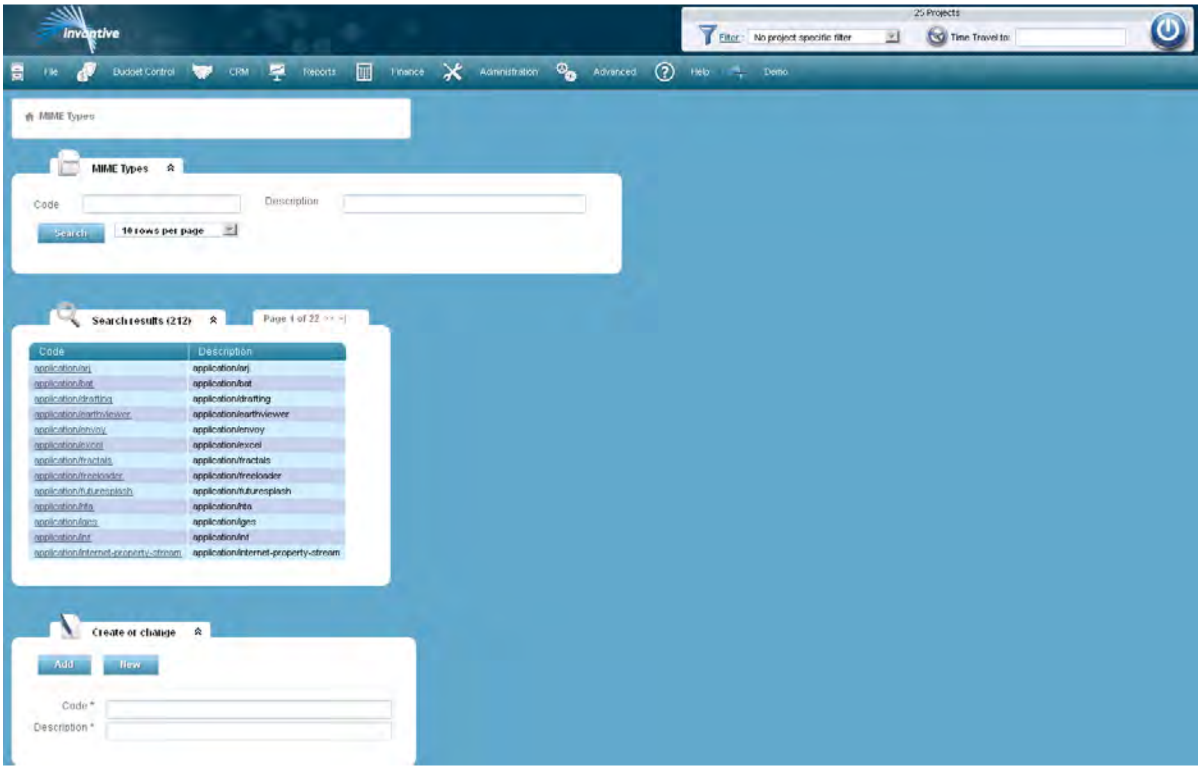
The meaning of the other fields:

Target language	The language to w hich the source language w ill be translated.
Key	The unique identification of the translation. This keyw ord is also used in the resource formats betw een '{res:' en '}'.
Translation is oudated	If checked, there is a more recent translation available.
Translation Missing	If checked, the source text is not translated.
Source Translation	The text to be translated to the target language.

MIME Types

In the following screen MIME types can be recorded and changed.

The MIME specification (Multipurpose Internet Mail Extensions) was proposed in 1992 to ensure that non-ASCII files could be sent by email. Because the ASCII standard consists of the standard Western European and American characters, it could not be used for images or other material. Today, the MIME specification is also used by the HTTP protocol to present all kinds of files in web pages.


invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
MIME Types
MIME Types
Code
Description
Search
10 rows per page
Search results (212)
Page 1 of 22 >> >|
Create or change
Add
New
Code *
Description *

Code	Description
application/arj	application/arj
application/bat	application/bat
application/drafting	application/drafting
application/earthviewer	application/earthviewer
application/envoy	application/envoy
application/excel	application/excel
application/fractals	application/fractals
application/freeloader	application/freeloader
application/futuresplash	application/futuresplash
application/hta	application/hta
application/iges	application/iges
application/int	application/int
application/internet-property-stream	application/internet-property-stream

The meaning of the entry fields is:

Code	The code of the MIME type.
Description	The description of the MIME type.

The MIME types are used to link file extensions to MIME types. In this way you can determine a MIME type even in the absence of the correct MIME type.

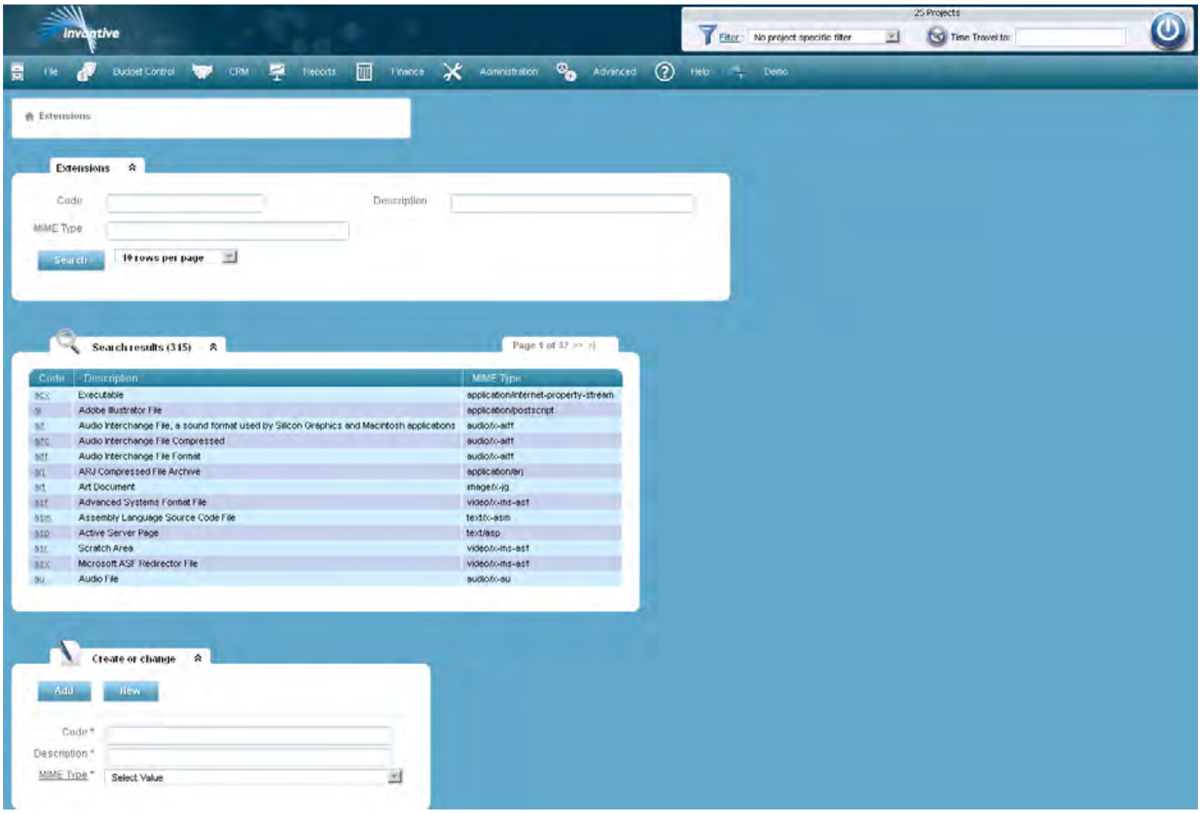
The registration of MIME types is a typical activity for application developers. See the warning under Application Development 272.

Extensions

This screen allows you to record and change extensions.

A file extension is an addition to the end of a filename indicating what type of file it is. This extension consists of one or more letters (usually three) after the last point in the name. For example, in the filename ‘contract.doc‘ is ‘.doc’ the file extension.

File extensions are used in most computer operating systems to enable the computer to determine the type of a file in order to start the appropriate program to open the file with.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Extensions
Extensions
Code
Description
MIME Type
Search
10 rows per page
Search results (315)
Page 1 of 32 >> >|
Create or change
Add
New
Code *
Description *
MIME Type *
Select Value

Code	Description	MIME Type
acx	Executable	application/internet-property-stream
ai	Adobe Illustrator File	application/postscript
aif	Audio Interchange File, a sound format used by Silicon Graphics and Macintosh applications	audio/x-aiff
aifc	Audio Interchange File Compressed	audio/x-aiff
aiff	Audio Interchange File Format	audio/x-aiff
arj	ARJ Compressed File Archive	application/arj
art	Art Document	image/x-jg
asf	Advanced Systems Format File	video/x-ms-asf
asm	Assembly Language Source Code File	text/x-asm
asp	Active Server Page	text/asp
asr	Scratch Area	video/x-ms-asf
asx	Microsoft ASF Redirector File	video/x-ms-asf
au	Audio File	audio/x-au

The meaning of the entry fields is:

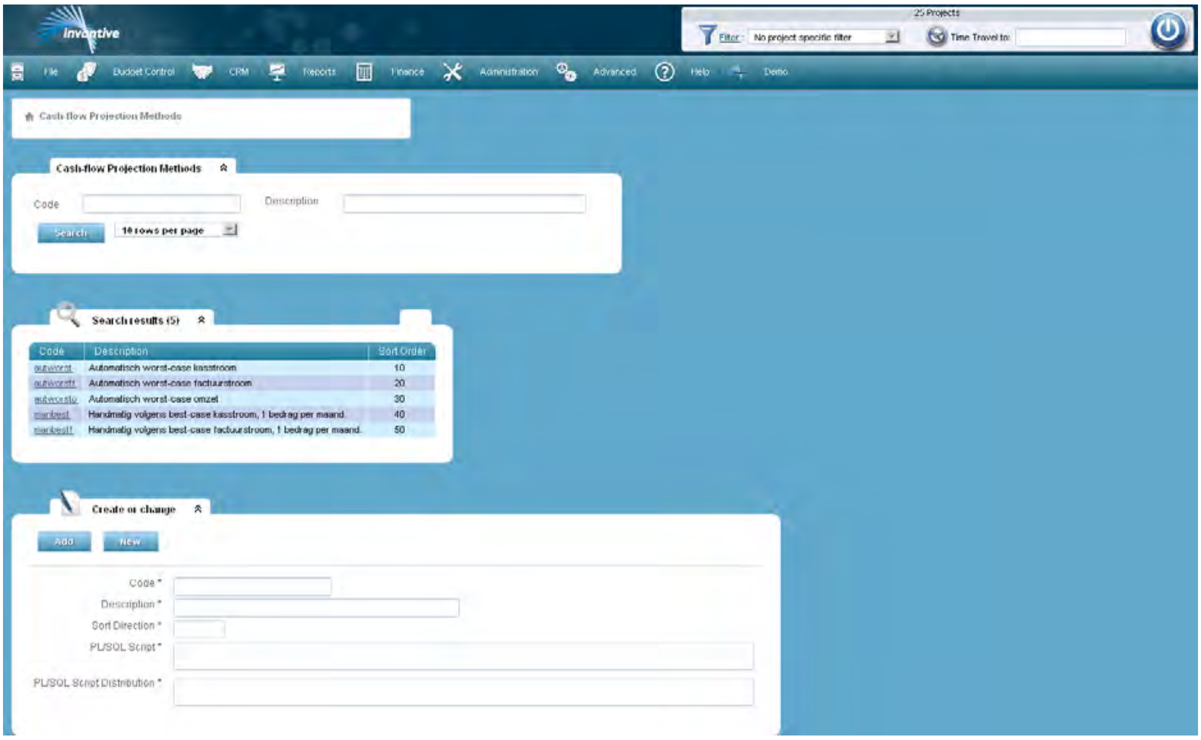
Code	The code of the extension.
Description	The description of the extension. For example, with which program the extension can be opened or the function of files with this extension.
MIME Type	Reference to the MIME Type as registered in MIME Types 328.

Cash Flow Projection Methods

In this screen you can register and change cash flow projection methods.

To have profit as objective and as a basis for decision making in a project, has the disadvantage, that no account is taken of time preference and risk. An alternative is to think in the present value of the future cash flows of the project. In this screen the desired cash flow projection methods can be entered with which the present value of future cash flows can be calculated.

Cash flow projections can be calculated for sub- and independent projects, but not for master projects.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Cash flow Projection Methods
Cash-flow Projection Methods
Code
Description
Search
10 rows per page
Search results (5)
Create or change
Add
New
Code *
Description *
Sort Direction *
PL/SQL Script *
PL/SQL Script Distribution *

Code	Description	Sort Order
autworst	Automatisch worst-case kasstroom	10
autworstf	Automatisch worst-case factuurstroom	20
autworsto	Automatisch worst-case omzet	30
manbest	Handmatig volgens best-case kasstroom, 1 bedrag per maand.	40
manbestf	Handmatig volgens best-case factuurstroom, 1 bedrag per maand.	50

The meaning of the entry fields is:

Code	The code used to refer to the cash flow projection method.
Description	The description
Sort Order	The number used to sort cash flow projection methods in‘drop boxes’.
PL/SQL Script	The PL/SQL-script used to calculate the cash flow projection method.
PL/SQL Script Distribution	The PL/SQL-script used to calculate the distribution of cash flow per day over time. This is a different script than the PL/SQL script.

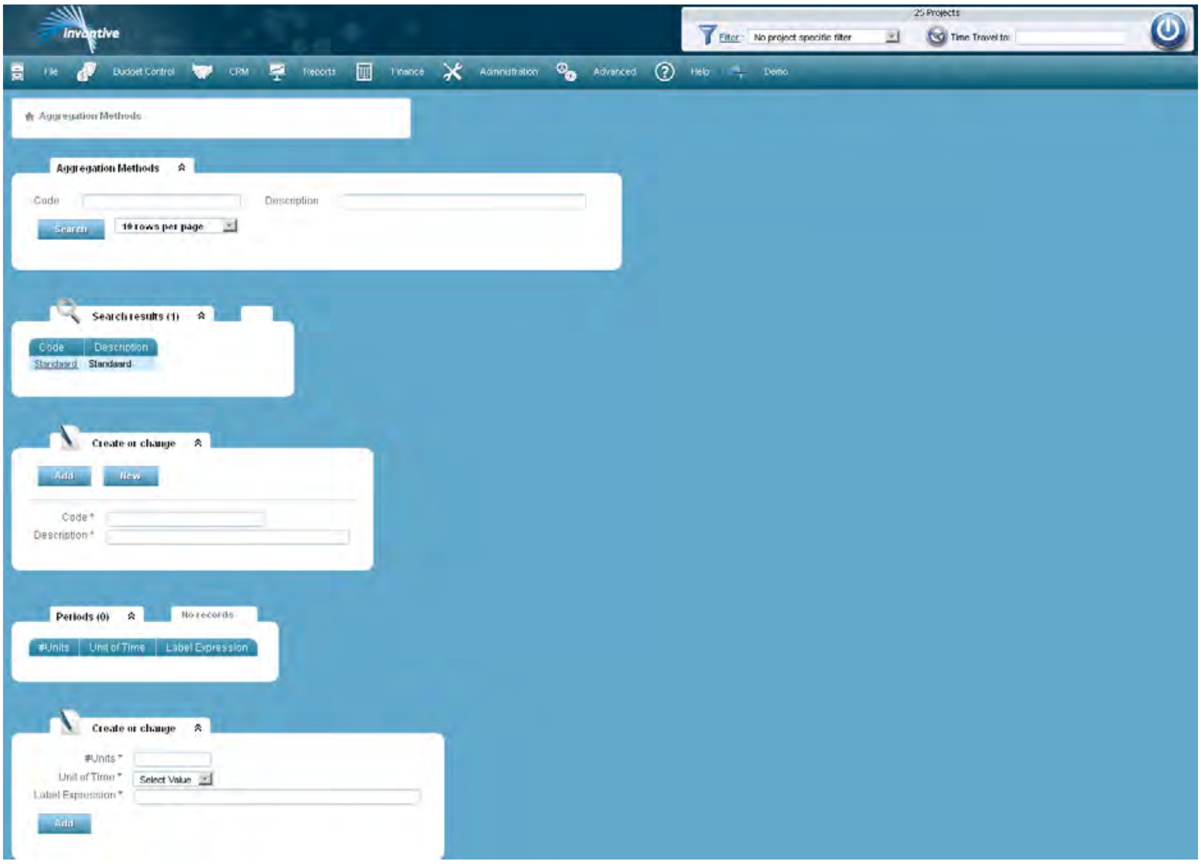
Note: cash flow projections can be used for cash flows, invoice flows, revenue flows and other distributions of amounts over time.

Aggregation Methods

In this screen you can register and edit aggregation methods.

An aggregation method is an allocation of days in a time range in summaries. An example:

- Today: today.
- Last week: 1 till 7 days ago.
- Last month: 1 till 30 days ago.
- etc.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
Aggregation Methods
Aggregation Methods
Code
Description
Search
10 rows per page
Search results (1)
Code
Description
Standard
Standard
Create or change
Add
New
Code *
Description *
Periods (0)
No records
#Units
Unit of Time
Label Expression
Create or change
#Units *
Unit of Time *
Select Value
Label Expression *
Add

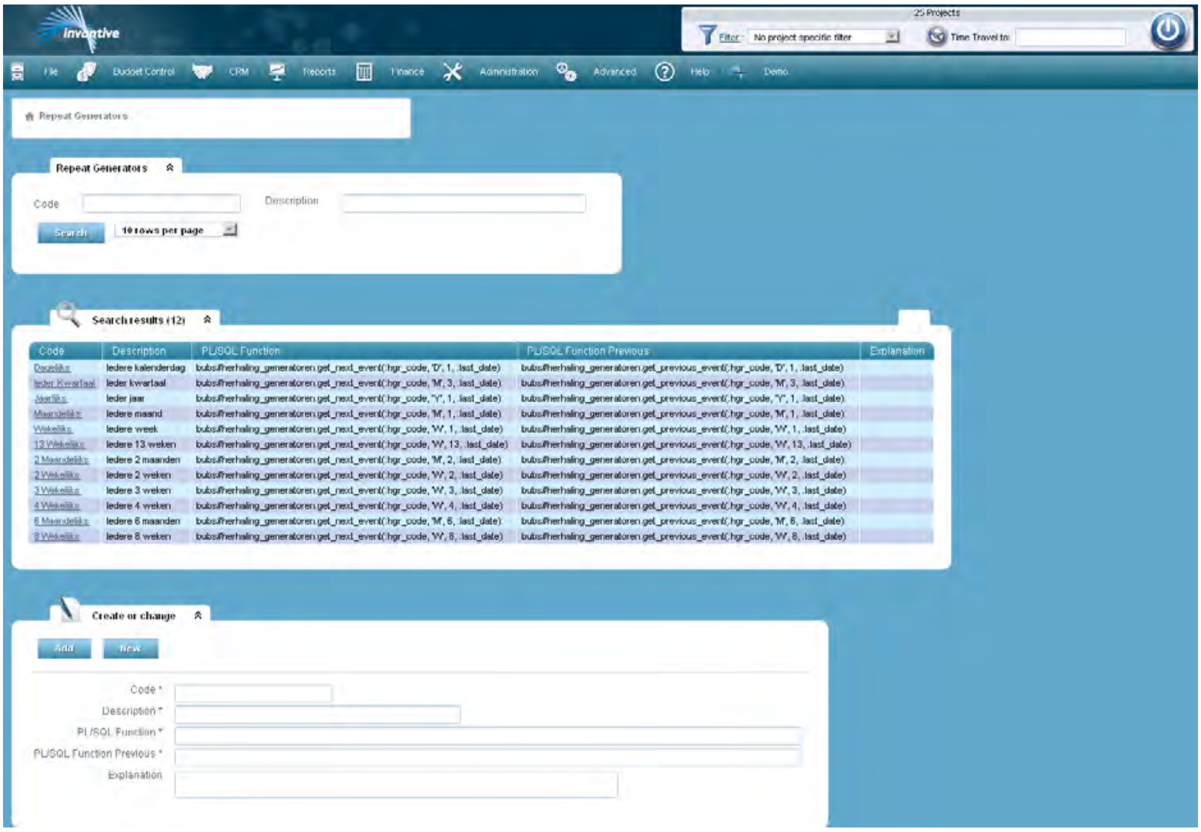
The meaning of the entry fields is:

Code	The code with which is refered to the aggregation method.
Description	The description of the aggregation method.
#Units	The number of units to be aggregated.
Unit of Time	The time unit over which the aggregation takes place.
Label Expression	SQL expression that calculates the first day in the period. All variables of type ': start_date' will be replaced by the first day in the period. They are summed for all times after the previous period specification. For example: • 2 days --> day 0 till 2. • 7 days --> day 2 till 7. • 1 month --> day 7 till the end of the month which contains day 7.

Repeat Generators

In this screen you can register and change repeat generators.

With a repeat generator you can start events which should be initiated after the expiration of a specified time interval.



Code	Description	PL/SQL Function	PL/SQL Function Previous	Explanation
Dagelijks	Iedere kalenderdag	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'D', 1, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'D', 1, :last_date)	
Ieder Kwartaal	Ieder kwartaal	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'M', 3, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'M', 3, :last_date)	
Jaarlijks	Ieder jaar	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'Y', 1, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'Y', 1, :last_date)	
Maandelijks	Iedere maand	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'M', 1, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'M', 1, :last_date)	
Wekelijks	Iedere week	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'W', 1, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'W', 1, :last_date)	
13 Wekelijks	Iedere 13 weken	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'W', 13, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'W', 13, :last_date)	
2 Maandelijks	Iedere 2 maanden	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'M', 2, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'M', 2, :last_date)	
2 Wekelijks	Iedere 2 weken	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'W', 2, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'W', 2, :last_date)	
3 Wekelijks	Iedere 3 weken	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'W', 3, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'W', 3, :last_date)	
4 Wekelijks	Iedere 4 weken	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'W', 4, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'W', 4, :last_date)	
6 Maandelijks	Iedere 6 maanden	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'M', 6, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'M', 6, :last_date)	
8 Wekelijks	Iedere 8 weken	bubs#herhaling_generatoren.get_next_event(:hgr_code, 'W', 8, :last_date)	bubs#herhaling_generatoren.get_previous_event(:hgr_code, 'W', 8, :last_date)	

Code *
Description *
PL/SQL Function *
PL/SQL Function Previous *
Explanation

The meaning of the entry fields is:

Code	The code used to refer to the repeat generator.
Description	The description of the repeat generator.
PL/SQL Function	The name of the PL/SQL function that calculates the next date using the last date and the repeat generator code.
PL/SQL Function Previous	The name of the PL/SQL function that calculates the previous date using the last date and the repeat generator code.
Explanation	Possible explanation.

1.2.9 Messages

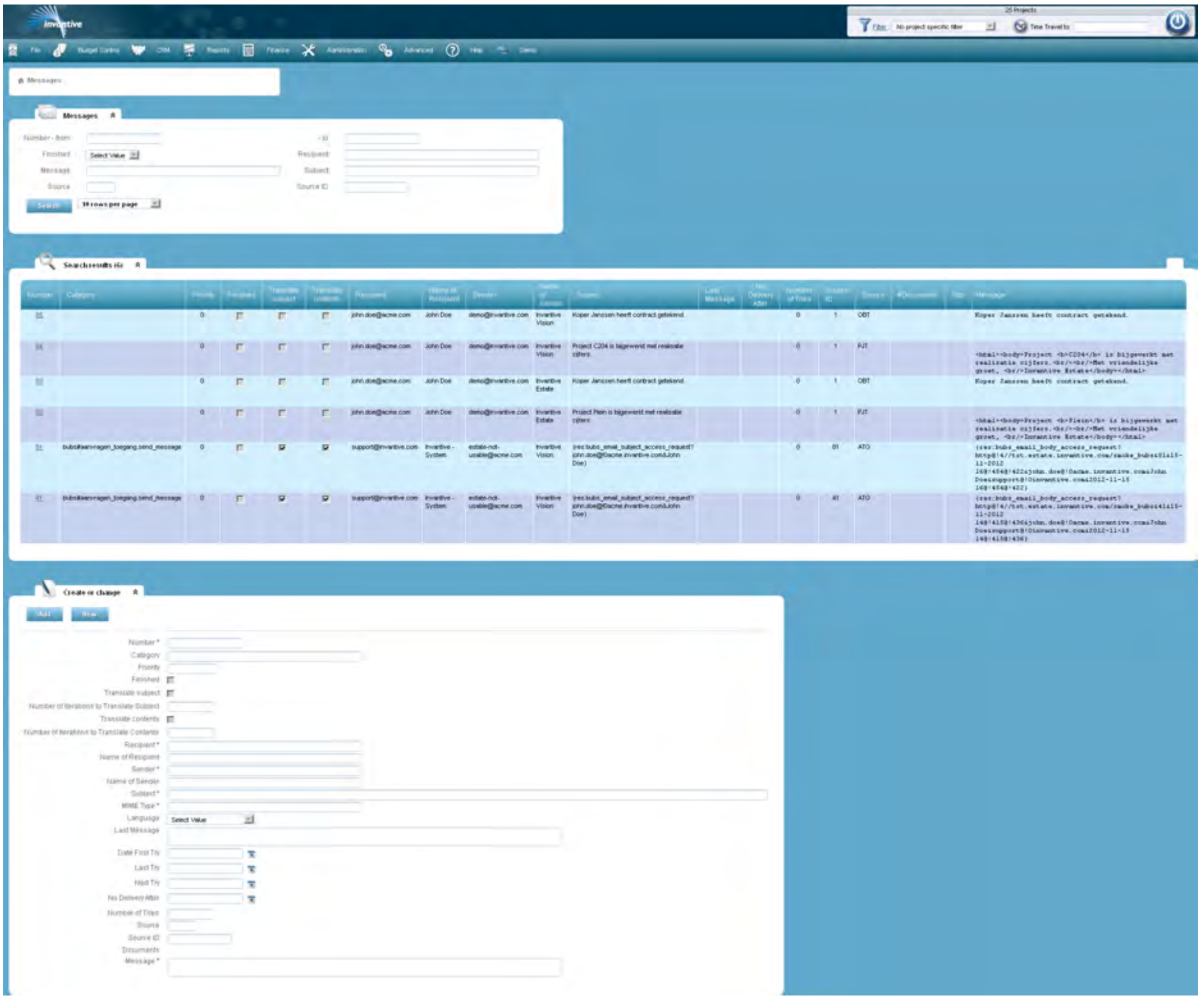
In this form you can register and change messages.

A message is an asynchronous exchange of information, for example, by email.

If a message is delivered by e-mail, then you can find the following fields in the headers of the e-mail:

- `X-Priority`: priority, described of the Invantive priority where 0 is neutral to SMTP priority where 3 is neutral.
- `X-Mailer`: site identification.
- `X-Invantive-ID`: number of the message.
- `X-Invantive-Tries`: number of tries of the message.
- `X-Invantive-Send-Delay`: time passed between the recording of the message and the actual sending.
- `X-Invantive-Recipient`: recipient of the message as it has been requested to the e-mail server.

- `X-Invantive-Table-Code`: source of the message.
- `X-Invantive-Table-ID`: linking-ID of the message.
- `X-Invantive-Category`: category of the message.



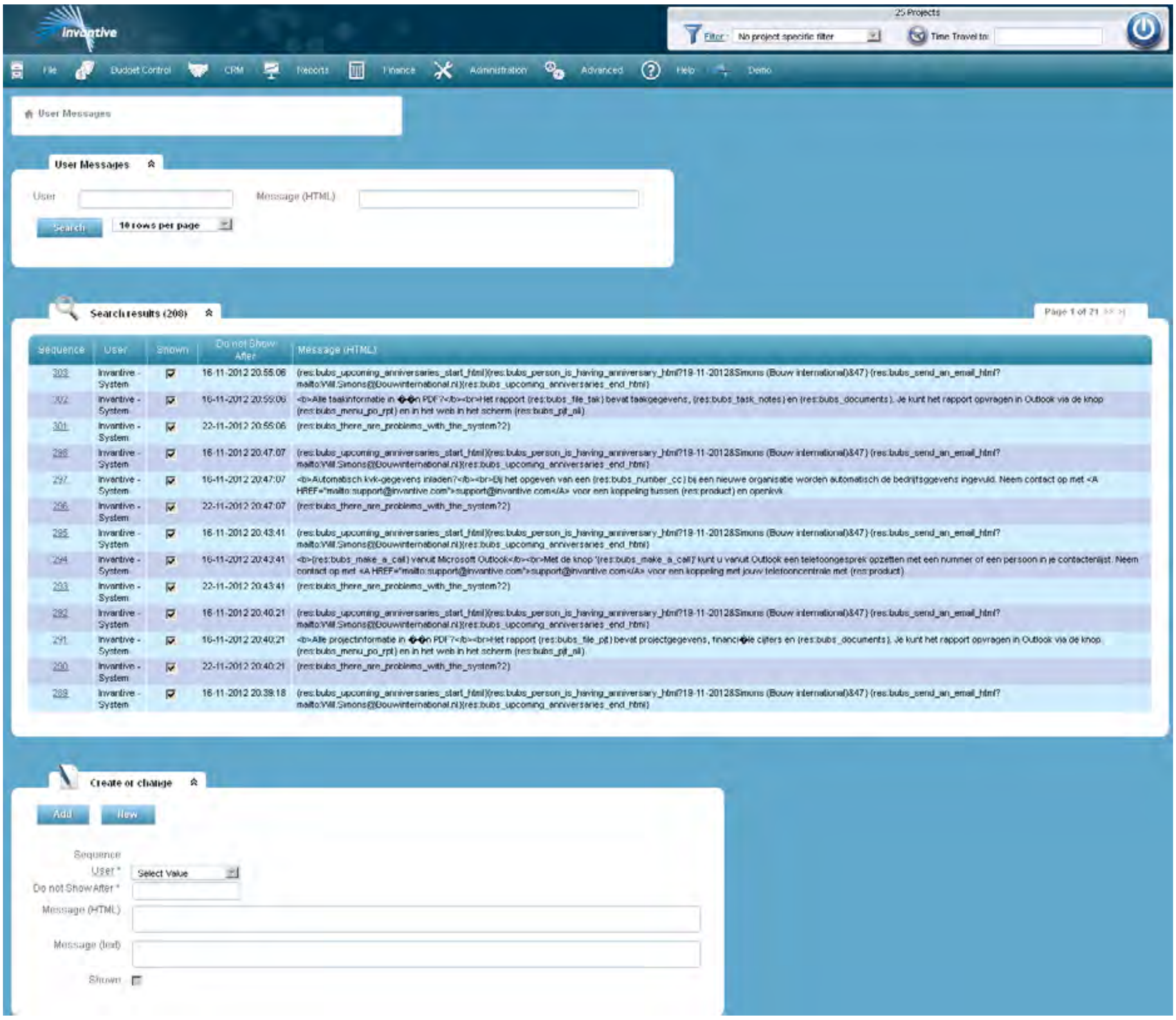
The meaning of the entry fields is:

Number	The unique number that identifies the message.
Category	Message Category is used for deleting double messages or for sending only the last message of a specific category for an object ID.
Priority	Numeric value for the priority that this message should be processed. Zero means neutral, negative means bulk and positive means urgent.
Finished	The message is processed when this box is checked.
Translate Subject	When checked, the subject of the message will be translated to the specified language before delivery.
Translate Content	The message will be translated when checked.
Recipient	Email address of the recipient.
Name of Recipient	The name of the recipient.
Sender	Email address of the sender of the message.
Name of Sender	The name of the sender.
Subject	The subject of the message.
MIME Type	The MIME type 328 of the message, for example ‘text/html’.
Language	Reference to a language, used for the translation, as registered in Languages 323.
Last Message	The last message that occurred in an attempt to process the message.
Date First Try	Point in time at which the first attempt has taken place to process the message.

Last Try	Point in time at which the last attempt has taken place to process the message.
Next Try	The most earliest point in time at which the next attempt will take place to process the message.
Do not Deliver After	The system time at which the message can be removed and will no longer be delivered.
Number of Tries	The number of completed attempts to send the message.
Parent	The table alias of the table that contains the object to which the message is linked. The table alias is a unique three character alphanumeric code that identifies the table.
Source ID	The unique number of the type of data to which you want to link the message. This field together with the field 'Source' makes it possible to retain the relation with the origin of an object for the workflow messages.
Source	The type of data (process, task, etc.) to wich you want to link the message.
Documents	Linked documents, see Linking Documents 29.
User Message	The statement of the message.

1.2.10 User Messages

Here, personal messages to a user entered. These messages are displayed after the user has logged on.



Sequence	User	Shown	Do not Show After	Message (HTML)
303	Invantive - System	☑	16-11-2012 20:55:06	{res:bubs_upcoming_anniversaries_start_html}{res:bubs_person_is_having_anniversary_html?19-11-2012&Simons (Bouw international)&47} {res:bubs_send_an_email_html?mailto:Will.Simons@Bouwinternational.nl}{res:bubs_upcoming_anniversaries_end_html}
302	Invantive - System	☑	16-11-2012 20:55:06	Alle taakinformatie in ��n PDF? Het rapport {res:bubs_file_tak} bevat taakgegevens, {res:bubs_task_notes} en {res:bubs_documents}. Je kunt het rapport opvragen in Outlook via de knop {res:bubs_menu_po_rpt} en in het web in het scherm {res:bubs_pjt_all}
301	Invantive - System	☑	22-11-2012 20:55:06	{res:bubs_there_are_problems_with_the_system?2}
298	Invantive - System	☑	16-11-2012 20:47:07	{res:bubs_upcoming_anniversaries_start_html}{res:bubs_person_is_having_anniversary_html?19-11-2012&Simons (Bouw international)&47} {res:bubs_send_an_email_html?mailto:Will.Simons@Bouwinternational.nl}{res:bubs_upcoming_anniversaries_end_html}
297	Invantive - System	☑	16-11-2012 20:47:07	Automatisch kvk-gegevens inladen? Bij het opgeven van een {res:bubs_number_cc} bij een nieuwe organisatie worden automatisch de bedrijfsgegevens ingevuld. Neem contact op met <A HREF="mailto:support@invantive.com">support@invantive.com</A> voor een koppeling tussen {res:product} en openkvk
296	Invantive - System	☑	22-11-2012 20:47:07	{res:bubs_there_are_problems_with_the_system?2}
295	Invantive - System	☑	16-11-2012 20:43:41	{res:bubs_upcoming_anniversaries_start_html}{res:bubs_person_is_having_anniversary_html?19-11-2012&Simons (Bouw international)&47} {res:bubs_send_an_email_html?mailto:Will.Simons@Bouwinternational.nl}{res:bubs_upcoming_anniversaries_end_html}
294	Invantive - System	☑	16-11-2012 20:43:41	{res:bubs_make_a_call} vanuit Microsoft Outlook Met de knop '{res:bubs_make_a_call}' kunt u vanuit Outlook een telefoongesprek opzetten met een nummer of een persoon in je contactenlijst. Neem contact op met <A HREF="mailto:support@invantive.com">support@invantive.com</A> voor een koppeling met jouw telefooncentrale met {res:product}
293	Invantive - System	☑	22-11-2012 20:43:41	{res:bubs_there_are_problems_with_the_system?2}
292	Invantive - System	☑	16-11-2012 20:40:21	{res:bubs_upcoming_anniversaries_start_html}{res:bubs_person_is_having_anniversary_html?19-11-2012&Simons (Bouw international)&47} {res:bubs_send_an_email_html?mailto:Will.Simons@Bouwinternational.nl}{res:bubs_upcoming_anniversaries_end_html}
291	Invantive - System	☑	16-11-2012 20:40:21	Alle projectinformatie in ��n PDF? Het rapport {res:bubs_file_pjt} bevat projectgegevens, financi�le cijfers en {res:bubs_documents}. Je kunt het rapport opvragen in Outlook via de knop {res:bubs_menu_po_rpt} en in het web in het scherm {res:bubs_pjt_all}
290	Invantive - System	☑	22-11-2012 20:40:21	{res:bubs_there_are_problems_with_the_system?2}
289	Invantive - System	☑	16-11-2012 20:39:18	{res:bubs_upcoming_anniversaries_start_html}{res:bubs_person_is_having_anniversary_html?19-11-2012&Simons (Bouw international)&47} {res:bubs_send_an_email_html?mailto:Will.Simons@Bouwinternational.nl}{res:bubs_upcoming_anniversaries_end_html}

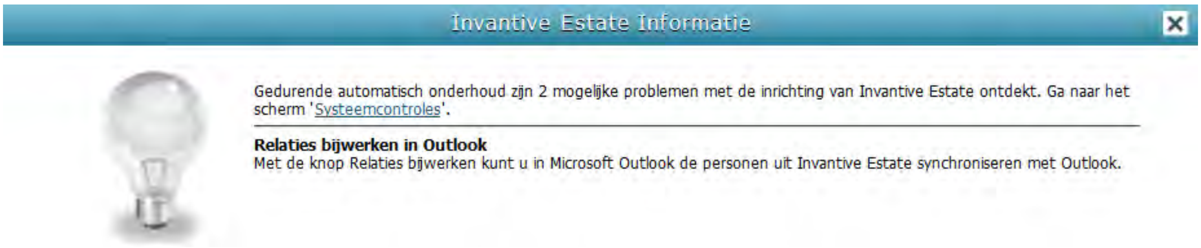
The meaning of the entry fields is:

Sequence	The unique number of the message.
User	The name of the user who received the message.
Do not Show After	After this date, the message will not appear anymore.
Message (HTML)	The HTML code of the message. The HTML code may also contain resource strings like

	{res:bubs_code}. These resource strings are shown to the user in the correct language.
Message (text)	The text of the message. The message may also contain resource strings like {res:bubs_code}. These resource strings are shown to the user in the correct language.
Shown	Indicator which shows if the message already has been shown.

1.2.11 System Checks

If a user logs on as ‘Application Manager’ (see Settings 336) or as ‘System’, Invantive Estate will perform several system checks. If these system checks generate errors, a popup window will appear asking to go to the screen ‘System Checks’.

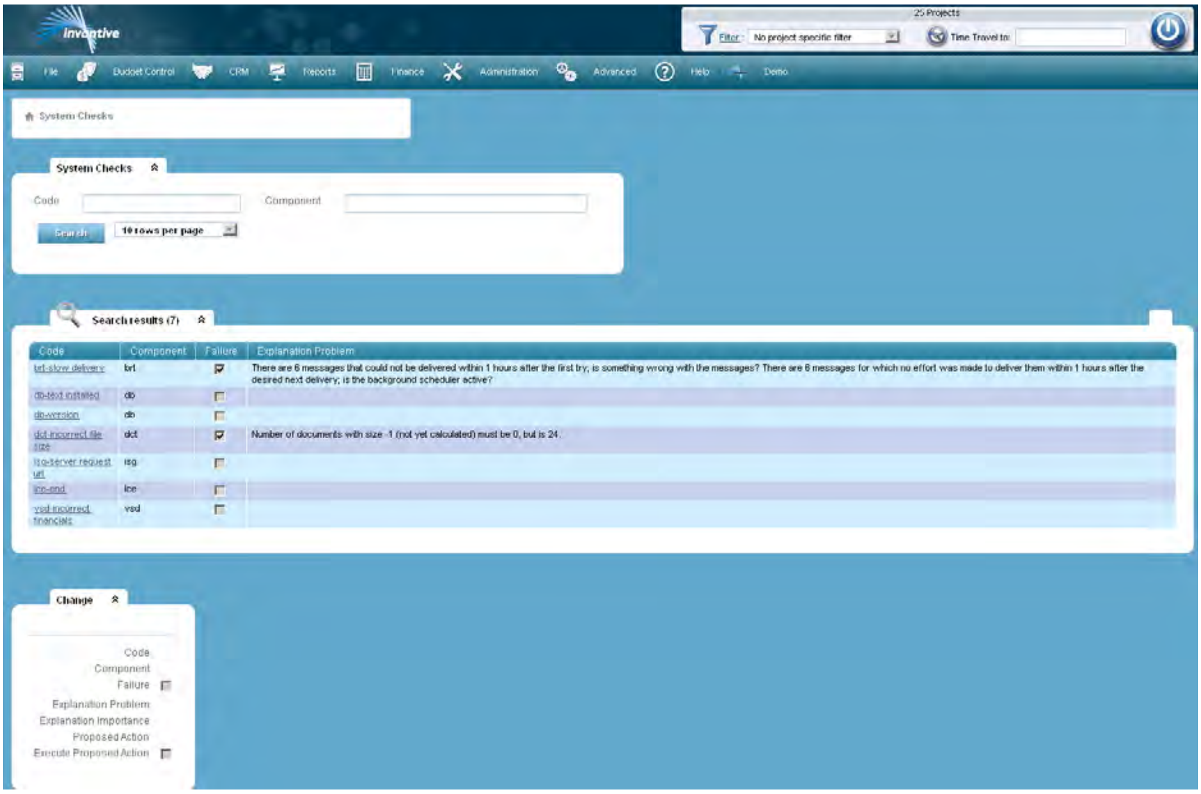

Invantive Estate Informatie

Gedurende automatisch onderhoud zijn 2 mogelijke problemen met de inrichting van Invantive Estate ontdekt. Ga naar het scherm 'Systeemcontroles'.

Relaties bijwerken in Outlook
Met de knop Relaties bijwerken kunt u in Microsoft Outlook de personen uit Invantive Estate synchroniseren met Outlook.

The current versions of Invantive Estate runs three system checks:

- In the first check verifies if all files are present and checks if the file names contain no special characters.
- The second check verifies if the URL in the browser is similar to the one in the Settings 336. If you check the box ‘Execute Proposed Action’ and subsequently click on ‘Save’, then the settings are automatically adjusted. For example, this functionality is useful if you have made a copy of an existing environment on a new location.
- The third check verifies whether the stored and real-time contract positions match.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File
Budget Control
CRM
Reports
Finance
Administration
Advanced
Help
Demo
System Checks
System Checks
Code
Component
Search
10 rows per page
Search results (7)
Change

Code	Component	Failure	Explanation Problem
brt-slow delivery	brt	☑	There are 6 messages that could not be delivered within 1 hours after the first try; is something wrong with the messages? There are 6 messages for which no effort was made to deliver them within 1 hours after the desired next delivery; is the background scheduler active?
db-text installed	db	☐	
db-version	db	☐	
dct-incorrect file size	dct	☑	Number of documents with size -1 (not yet calculated) must be 0, but is 24.
isg-server request url	isg	☐	
ice-end	ice	☐	
vsd-incorrect financials	vsd	☐	

Code
Component
Failure ☐
Explanation Problem
Explanation Importance
Proposed Action
Execute Proposed Action ☐

The meaning of the entry fields is:

Execute Proposed Action	If checked, the ‘proposed action’ will be executed when you click ‘Save Change’. Not in all cases is it possible to execute the ‘proposed action’ automatically and manual actions will be required. An error message appears if you check the box and click on ‘Save Change’ when manual actions are necessary.

The meaning of the other fields:

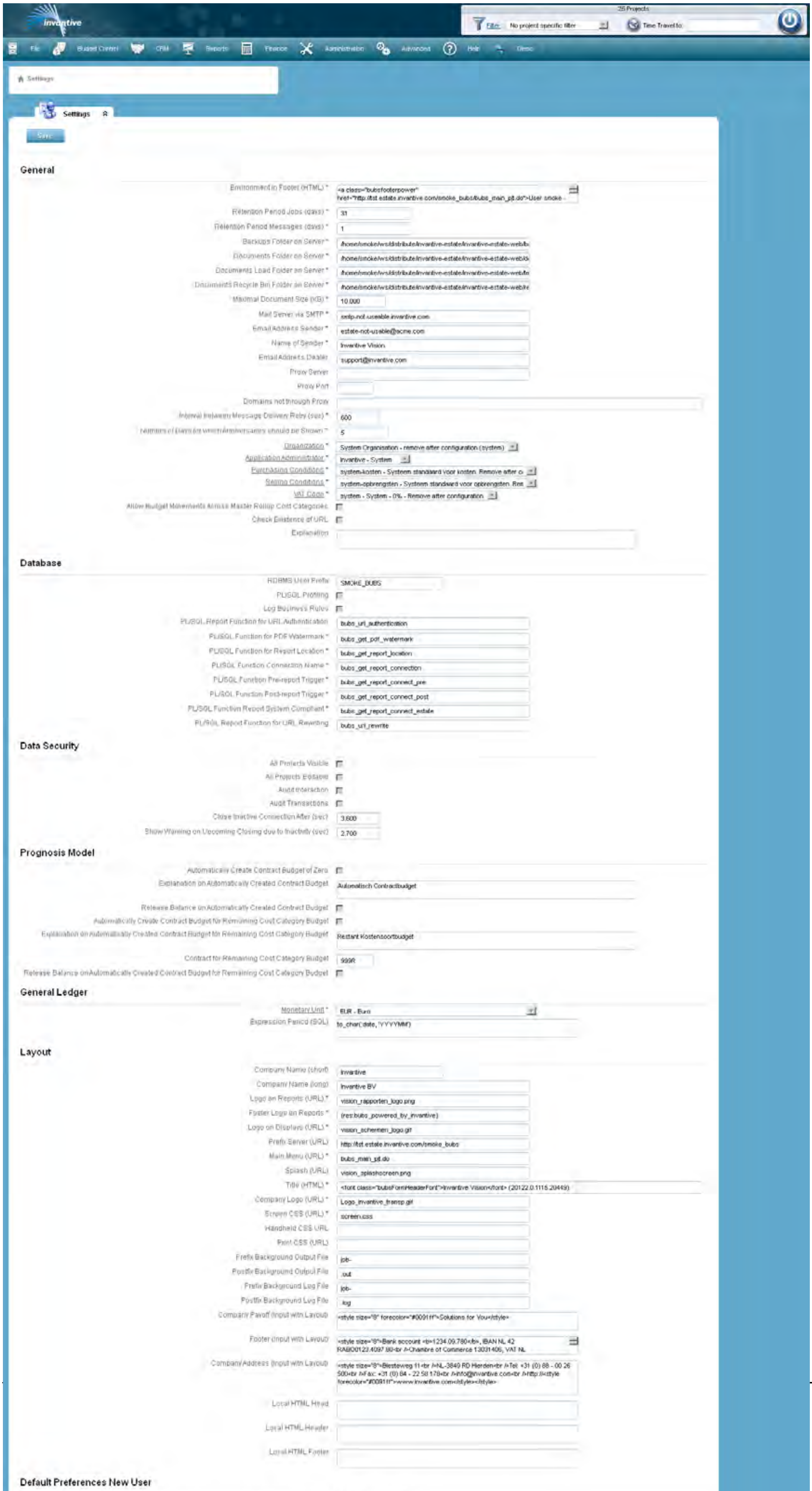
Code	The code of the system check.
Component	The part of the application where the code relates to.
Failure	If checked this indicates that a malfunction occurs within the application.
Explanation Problem	An explanation of the occurring problem.
Explanation Importance	An explanation of the importance of the problem.
Proposed Action	Proposal to solve the problem.

1.2.12 Settings

In this form you can register and change settings.

It may take up to 30 seconds until a change of a setting becomes effective. If you want to avoid this, restart the web server.

The settings apply to the entire application and all users.



General

Environment in Footer (HTML) *	<a class="bubsfooterpower" href="http://tst.estate.invantive.com/smoke_bubs/bubs_main_pjt.do">User smoke -
Retention Period Jobs (days) *	31
Retention Period Messages (days) *	1
Backups Folder on Server *	/home/smoke/ws/distribute/invantive-estate/invantive-estate-web/b
Documents Folder on Server *	/home/smoke/ws/distribute/invantive-estate/invantive-estate-web/d
Documents Load Folder on Server *	/home/smoke/ws/distribute/invantive-estate/invantive-estate-web/l
Documents Recycle Bin Folder on Server *	/home/smoke/ws/distribute/invantive-estate/invantive-estate-web/r
Maximal Document Size (KB) *	10.000
Mail Server via SMTP *	smtp.not-useable.invantive.com
Email Address Sender *	estate-not-usable@acme.com
Name of Sender *	Invantive Vision
Email Address Dealer	support@invantive.com
Proxy Server	
Proxy Port	
Domains not through Proxy	
Interval between Message Delivery Retry (sec) *	600
Number of Days for which Anniversaries should be Shown *	5
Organization *	System Organisation - remove after configuration (system)
Application Administrator *	Invantive - System
Purchasing Conditions *	system-kosten - Systeem standaard voor kosten. Remove after c
Selling Conditions *	system-opbrengsten - Systeem standaard voor opbrengsten. Rem
VAT Code *	system - System - 0% - Remove after configuration
Allow Budget Movements Across Master Rollup Cost Categories	☐
Check Existence of URL	☐
Explanation	

Database

RDBMS User Prefix	SMOKE_BUBS
PL/SQL Profiling	☐
Log Business Rules	☐
PL/SQL Report Function for URL Authentication	bubs_url_authentication
PL/SQL Function for PDF Watermark *	bubs_get_pdf_watermark
PL/SQL Function for Report Location *	bubs_get_report_location
PL/SQL Function Connection Name *	bubs_get_report_connection
PL/SQL Function Pre-report Trigger *	bubs_get_report_connect_pre
PL/SQL Function Post-report Trigger *	bubs_get_report_connect_post
PL/SQL Function Report System Compliant *	bubs_get_report_connect_estate
PL/SQL Report Function for URL Rewriting	bubs_url_rewrite

Data Security

All Projects Visible	☐
All Projects Editable	☐
Audit Interaction	☐
Audit Transactions	☐
Close Inactive Connection After (sec)	3.600
Show Warning on Upcoming Closing due to Inactivity (sec)	2.700

Prognosis Model

Automatically Create Contract Budget of Zero	☐
Explanation on Automatically Created Contract Budget	Automatisch Contractbudget
Release Balance on Automatically Created Contract Budget	☐
Automatically Create Contract Budget for Remaining Cost Category Budget	☐
Explanation on Automatically Created Contract Budget for Remaining Cost Category Budget	Restant Kostensoortbudget
Contract for Remaining Cost Category Budget	999R
Release Balance on Automatically Created Contract Budget for Remaining Cost Category Budget	☐

General Ledger

Monetary Unit *	EUR - Euro
Expression Period (SQL)	to_char(:date, 'YYYYMM')

Layout

Company Name (short)	Invantive
Company Name (long)	Invantive BV
Logo on Reports (URL) *	vision_rapporten_logo.png
Footer Logo on Reports *	{res:bubs_powered_by_invantive}
Logo on Displays (URL) *	vision_schermen_logo.gif
Prefix Server (URL)	http://tst.estate.invantive.com/smoke_bubs
Main Menu (URL) *	bubs_main_pjt.do
Splash (URL)	vision_splashscreen.png
Title (HTML) *	Invantive Vision (20122.0.1115.20449)
Company Logo (URL) *	Logo_invantive_transp.gif
Screen CSS (URL) *	screen.css
Handheld CSS URL	
Print CSS (URL)	
Prefix Background Output File	job-
Postfix Background Output File	.out
Prefix Background Log File	job-
Postfix Background Log File	.log
Company Payoff (Input with Layout)	<style size="8" forecolor="#0091ff">Solutions for You</style>
Footer (Input with Layout)	<style size="8">Bank account 1234.09.780, IBAN NL 42 RABO0123.4097.80<br />Chambre of Commerce 13031406, VAT NL
Company Address (Input with Layout)	<style size="8">Biesteweg 11<br />NL-3849 RD Hierden<br />Tel: +31 (0) 88 - 00 26 500<br />Fax: +31 (0) 84 - 22 58 178<br />info@invantive.com<br />http://<style forecolor="#0091ff">www.invantive.com</style></style>
Local HTML Head	
Local HTML Header	
Local HTML Footer	

Default Preferences New User

The meaning of the entry fields is:

General	
Environment in Footer (HTML)	In each screen this text will appear in the footer. In this footer you can use HTML codes, such as <b<...<b> for bold printed text. See, for example, http://www.blooberry.com/indexdot/html/ for more information.
Retention Period Jobs (days)	The minimum number of days that the ERP jobs and the associated messages are preserved.
Retention Period Messages (days)	The minimum number of days that messages are kept before being automatically deleted. Relieving the server can cause that the realized retention period of messages is longer than the indicated retention period. However, the realized retention period will never be shorter.
Documents Folder on Server	The folder on the server in which attached documents are stored. Do mind: both the web server and the database must have write permissions for this!
Documents Load Folder on Server	The folder on the server in which attached documents are temporarily stored until they can be moved to the document folder after being fully received. Do mind: both the web server and the database of Invantive Estate must have write permissions for this!
Documents Recycle Bin Folder on Server	The folder on the server in which the attached documents are stored after being deleted. The administrator can choose to delete the documents from the recycle bin after a short of long period of time. Do mind: both the web server and the database of Invantive Estate must have write permissions for this!
Maximal Document Size (KB)	The maximum size of the new documents in kilobytes.
Mail Server via SMTP	The name or the address of the SMTP mail server with which outgoing email messages can be sent.
Email Address Sender	The email address from where sent emails originate.
Name of Sender	The name of the sender.
Email Address Dealer	The email address of the dealer of Invantive Estate.
Proxy Server	The Internet address of the proxy server. A proxy server is a server located between a user's computer and the computer containing the requested information by the user (the English word proxy means ‘intermediary’). If someone on a computer, where the address of a proxy server is set, is trying to reach another computer, then this will not be done directly but via the proxy server. The goal of this intermediate step depends on the type of proxy server.
Proxy Port	The computer port that the client computer uses to connect with the proxy server.
Domains not through Proxy	Domains that do not make contact via the proxy server..
Interval between Message Delivery Retry (sec)	Outgoing messages are queued. In case delivering a message fails, it is tried again after the interval, until it is processed successfully.
Number of Days Anniversaries to be Shown	Indicates the number of days in the future that anniversaries are displayed after logging in in Invantive Estate.
Organization	The organization for which the application runs.
Application Administrator	The name of the person responsible for application management. This name is displayed for information on several locations within the application.
Purchasing Conditions	The standard conditions of purchase applicable to purchases.
Selling Conditions	The standard selling conditions applicable to sales.

VAT Code	VAT is within Invantive Estate automatically calculated using a VAT code. The standard VAT code can be selected here.
Allow Budget Movements Across Master Rollup Cost Categories	If this box is checked it is allowed to move budgets across Master Rollup Cost Categories 191 in the screen Budget Movements 75.
Check Existence of URL	If this box is checked, the existence of the specified URL will be checked when logging in.
Explanation	Possible explanation.
Database	
RDBMS User Prefix	Unique prefix per Invantive Estate environment in the database. Often ‘P_’ is used for production and ‘A_’ for acceptance.
PL/SQL Profiling	When checked, all software written in PL/SQL will be profiled. See PL/SQL Profiling 503.
Log Business Rules	When checked, a print about the execution of a business rule will be sent to the ‘dbms_output’.
PL/SQL Report Function for URL Authentication	Name of the PL / SQL function that provides data authentication for p_user_name and p_password to make it possible to download URL's from sub functions.
PL/SQL Function for PDF Watermark	The name of the PL / SQL function that determines watermark or letterhead for reports and documents in PDF format. The parameters have to be equal to the parameters of the supplied PL / SQL function bubs_get_pdf_watermerk. See also Report Building 35.
PL/SQL Function for Report Location	The name of the function that determines the location of the reports and the ETL-scripts. This PL / SQL function returns the location of a report and ETL script if at another place to be searched than the default location. This function is used to store custom reports to a different place so they do not need to be installed again after an upgrade. An example:

```
create or replace function bubs_get_report_location
( p_master_report_name varchar2 /* Example: bubs_arf */
, p_mime_type          varchar2 /* Example: application/
pdf */
, p_parameter_list     varchar2 /* Example:
{REPORT_LOCALE=nl_NL...} */
, p_user_friendly_name varchar2 /* Example: Functies per
Rol (PDF) */
, p_uri                varchar2 /* Example: /usr_gle_-
bubs/bubs_arf_pdf_rpt.do */
, p_user_name          varchar2 /* Example: system */
, p_report_name        varchar2 /* Example: bubs_arf,
can differ when using subfunctions. */
)
return varchar2
is
/*
 *
 * $Id: bubs_isg_all.xml,v 1.35 2009-11-20 21:32:40 jen
Exp $
 *
 * (C) Copyright 2004-2012 Invantive Software BV, the
Netherlands. All rights reserved.
 *
 * Function to get a different location from which to
load a report.
```

```
 * Especially useful to load files from /local.
 *
 */
begin
  return '';
end;
/"
```

PL/SQL function for Connection Name	Name of the PL/SQL function that specifies the name of the connection for a report.
PL/SQL function for Pre-report trigger	Name of the PL/SQL function that returns 'Y' if the connection of the report supports 'pre-report events'.
PL/SQL function for Post-report trigger	Name of the PL/SQL function that returns 'Y' if the connection of the report supports 'post-report events'.
PL/SQL function for System Compliant Report	Name of the PL/SQL function that returns 'Y' if the connection of the report supports Invantive Estate JDBC-driver.
Data security	
All Projects Visible	When this field is checked, every user will be able to see all projects.
All Projects Editable	When this field is checked, each user can edit all projects when having edit rights in the screen.
Audit Interaction	This permits to set the auditing of interactions on/off. Disabling the auditing of interactions increases the performance of the system. To make the changed setting to become active you need to restart the web server.
Audit Transactions	This permits to set the auditing of transactions on/off. Disabling the auditing of transactions increases the performance of the system. To make the changed setting to become active you need to restart the web server.
Close Inactive Connection After (sec)	Indicates how many seconds after user inactivity via the web front end the connection will be broken.
Show Warning on Upcoming Closing due to Inactivity (sec)	Indicates after how many seconds the warning appears that the connection will be broken due to inactivity of the user via the web front end. Between the warning and the disconnection there is usually a time lag of a few hundred seconds.
Prognosis Model	
Automatically Create Contract Budget of 0	When checked, when using a new contract automatically a contract budget of zero will be created if no contract budget exists.
Explanation on Automatically Created Contract Budget	The explanation that is added to a contract budget in the event a contract budget 73 is automaticaly created.
Release Balance on Automatically Created Contract Budget	A budgetary surplus is used to compensate for shortages on automatically created contract budgets when this is checked.

Automatically Create contract budget for Remaining Cost Category Budget	When checked, a remaining cost category budget is automatically created when using a new contract.
Notes for Automatically Created Contract Budges for Remaining Cost Category Budget	The explanation that is added to a contract budget in the event a contract budget 73 is automatically created for a remaining cost category.
Contract for Remaining Cost Category Budget	Identification of the contract for the remaining cost category budget. This identification can be a number, letters or a combination of both.
Release Deviation for Automatic Contract Budget for Remaining Cost Category Budget	A budgetary surplus is used to compensate for shortages on automatically created for remaining cost category budgets when this is checked.
General Ledger	
Monetary Unit	The currency unit used by the general ledger.
Expression Period (SQL)	The SQL expression that delivers the period to the general ledger based on posting date.
Layout	
Company Name (short)	The company name which will be printed on the reports when little space is available on the pages.
Company Name (long)	The company name which will be printed on the reports when plenty space is available on the pages.
Logo on Reports (URL)	The URL being used to show the logo on the reports. This URL will be searched from the application server because the report is generated on the application server.
Footer Logo on Reports	Footer Logo shown on Reports.
Logo on Displays (URL)	The URL being used to show the logo on the screens. This URL will be searched from the user's PC.
Voorvoegsel Server (URL)	The path to find the application, in the format of a URL.
Main Menu (URL)	The URL that will be used to specify the main menu in the event the field 'Start page (URL)' in My Preferences 47 is empty. The URL will be requested with the parameter MNU_CODE = Main. The URL will be searched from the user's PC.
Splash (URL)	The URL used to find the image of the login screen. See also Start up and Login 7. The URL will be searched from the user's PC.
Title (HTML)	The application's title as shown on the login screen. See also Start up and Login 7.
Company Logo (URL)	The URL used to put the company logo on letter paper, such as for time registration.
Screen CSS (URL)	The URL of a CSS style sheet used to determine the color scheme and style elements.
Handheld CSS (URL)	The URL of a CSS style sheet used to determine the color scheme and style elements on a PDA or any other mobile device.
Print CSS (URL)	The URL of a CSS style sheet used to determine the color scheme and style elements on a print.

Prefix Background Output File	The prefix for the file name of the output file of a background job.
Postfix Background Output File	The postfix for the file name of the output file of a background job.
Prefix Background Log File	The prefix for the file name of the log file of a background job.
Postfix Background Log File	The postfix for the file name of the log file of a background job.
Payoff Company (Input with Layout)	The payoff of the company for use on letter paper, directly below the logo, used, for example, for time registration. See Input with Layout 365 for layout possibilities.
Footer (Input with Layout)	The footer's layout for use on the bottom of letter paper, used, for example, for time registration. See Input with Layout 365 for layout possibilities.
Company Address (Input with Layout)	The company address' layout under the payoff and the logo for use on letter paper, used, for example, for time registration. See Input with Layout 365 for layout possibilities.
Local HTML Head	With local HTML you can change the layout of the screen. In this case, it concerns the section above the head of the screen. The following parameters can be used: • :productname: the name of the used product, for example 'Invantive Vision'. • :usertelult: the preferred telephone number of the user, for example '088 0026500'. • :siteid: the unique identification of the installation, for example 'L123-ACME'. • :useremail: the e-mail address of the user, for example 'j.doe@acme.com'. • :userlogon: the login code of the user, for example 'j.doe'. • :username: the name of the user, for example 'John Doe'. • :language: the language in which the user operates, for example 'nl' for Dutch. • :locale: the region code of the language in which the user operates, for example 'UK' for Great Britain.
Local HTML Header	With local HTML you can change the layout of the screen. In this case, it concerns the head section of the screen. You can use the same parameters as with 'Local HTML Above Head'.
Local HTML Footer	With local HTML you can change the layout of the screen. In this case, it concerns the foot section of the screen. You can use the same parameters as with 'Local HTML Above Head'.
Default Preferences New User	
Language	The setting for language in the context of new users. See My Preferences 41.
Financial Unit Reporting	The settings for financial unit reporting in the context of new users. See My Preferences 41.
Time Unit Reporting	The setting for time unit reporting in the context of new users. See My Preferences 41.
Records per Page	The number of rows in the Search Results 17 is shown for new users.
Merge Subprojects	The settings in the filter of new users for merging subprojects for reporting purposes. See My Preferences 41.
Receive Newsletter	When checked, the user will receive the newsletter of the dealer. A message will be sent to the dealer with the request to subscribe you to the newsletter. There are no charges. Besides your email address also your name will be passed on.
Show Tips	When checked, after you log on, tips for using Invantive Estate will be shown.
Show Anniversaries	When checked, after you log on, the near birthdays of users of Invantive Estate are shown.
Main Menu (URL)	The URL used to determine the main menu. This URL will be requested with the parameter MNU_CODE=Main. The URL will be searched from the user's PC. Using the field 'Start page (URL)' in the screen My Preferences 41 the user can specify a different start page if desired.
Start Date	The settings for starting date reporting in the context of new users. See My Preferences 41.
End Date	The settings for end date reporting in the context of new users. See My Preferences 41.
Adobe PDF	

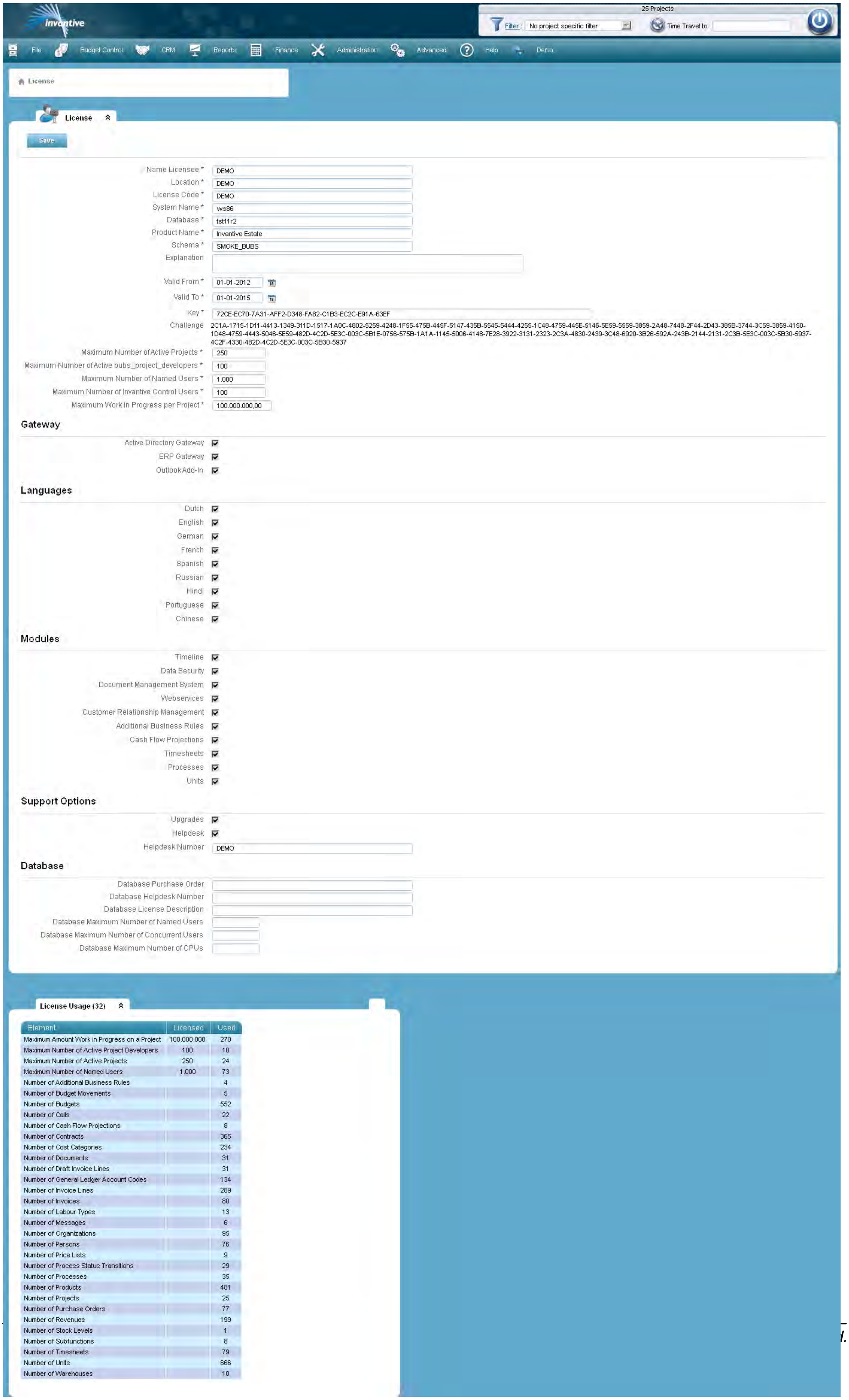
Default Settings New Users	
Use Encryption	The settings for encryption in the context of new users. See My Preferences 41.
Password Owner	The settings for the password of the owner in the context of new users. See My Preferences 41.
Password User	The settings for the password of the user in the context of new users. See My Preferences 41.
Allow Printing	The setting of allow printing in the context of new users. See My Preferences 41.
Allow Copying	The setting of allow copying in the context of new users. See My Preferences 41.
Allow Modifying	The setting of allow modifying in the context of new users. See My Preferences 41.
Allow Annotating	The setting of allow annotating in the context of new users. See My Preferences 41.
Allow Fill In	The setting of allow fill in, in the context of new users. See My Preferences 41.
Enable Screen Reader Options	The setting of enable screen reader options in the context of new users. See My Preferences 41.
Microsoft Excel Settings	
Read-only	If this box is checked, then the authorized user, can only read the Excel file. However, no changes can be made.
Change Password	The password of the Excel files necessary to change them.

1.2.13 License

The authorization to use a computer program may be specified in a contract, a license, and often contains restrictions regarding copying the program or the number of simultaneous users that may use the program. Usually a fee is demanded for using the program by the person who owns the copyrights.

This screen allows you to activate the license of &lt;% PRODUCT%&gt;.

Only the user ‘system’ can use the application as long as the license is not activated.



Name Licensee *	DEMO
Location *	DEMO
License Code *	DEMO
System Name *	ws86
Database *	tst11r2
Product Name *	Invantive Estate
Schema *	SMOKE_BUBS
Explanation	
Valid From *	01-01-2012
Valid To *	01-01-2015
Key *	72CE-EC70-7A31-AFF2-D348-FA82-C1B3-EC2C-E91A-63EF
Challenge	2C1A-1715-1D11-4413-1349-311D-1517-1A0C-4802-5259-4248-1F55-475B-445F-5147-435B-5545-5444-4255-1C48-4759-445E-5146-5E59-5559-3859-2A48-7448-2F44-2D43-385B-3744-3C59-3859-4150-1D48-4759-4443-5046-5E59-482D-4C2D-5E3C-003C-5B1E-0756-575B-1A1A-1145-5006-4148-7E28-3922-3131-2323-2C3A-4830-2439-3C48-6920-3B26-592A-243B-2144-2131-2C3B-5E3C-003C-5B30-5937-4C2F-4330-482D-4C2D-5E3C-003C-5B30-5937
Maximum Number of Active Projects *	250
Maximum Number of Active bubs_project_developers *	100
Maximum Number of Named Users *	1.000
Maximum Number of Invantive Control Users *	100
Maximum Work in Progress per Project *	100.000.000,00

Gateway

Active Directory Gateway	☑
ERP Gateway	☑
Outlook Add-In	☑

Languages

Dutch	☑
English	☑
German	☑
French	☑
Spanish	☑
Russian	☑
Hindi	☑
Portuguese	☑
Chinese	☑

Modules

Timeline	☑
Data Security	☑
Document Management System	☑
Webservices	☑
Customer Relationship Management	☑
Additional Business Rules	☑
Cash Flow Projections	☑
Timesheets	☑
Processes	☑
Units	☑

Support Options

Upgrades	☑
Helpdesk	☑
Helpdesk Number	DEMO

Database

Database Purchase Order	
Database Helpdesk Number	
Database License Description	
Database Maximum Number of Named Users	
Database Maximum Number of Concurrent Users	
Database Maximum Number of CPUs	

License Usage (32)

Element	Licensed	Used
Maximum Amount Work in Progress on a Project	100.000.000	270
Maximum Number of Active Project Developers	100	10
Maximum Number of Active Projects	250	24
Maximum Number of Named Users	1.000	73
Number of Additional Business Rules		4
Number of Budget Movements		5
Number of Budgets		552
Number of Calls		22
Number of Cash Flow Projections		8
Number of Contracts		365
Number of Cost Categories		234
Number of Documents		31
Number of Draft Invoice Lines		31
Number of General Ledger Account Codes		134
Number of Invoice Lines		289
Number of Invoices		80
Number of Labour Types		13
Number of Messages		6
Number of Organizations		95
Number of Persons		76
Number of Price Lists		9
Number of Process Status Transitions		29
Number of Processes		35
Number of Products		481
Number of Projects		25
Number of Purchase Orders		77
Number of Revenues		199
Number of Stock Levels		1
Number of Subfunctions		8
Number of Timesheets		79
Number of Units		666
Number of Warehouses		10

The meaning of the entry fields is:

Name Licensee	Name on which the license is registered.
Location	Location where the license is installed.
License Code	The license code of the application as registered by Invantive.
System Name	The name of the server where the database is installed.
Database	The name of the database on which the application is installed.
Product Name	The name of the application to which the license applies.
Schema	The name of the schema in the database used to install the tables.
Valid From	The beginning of the validity of the license.
Valid To	The end date of the validity of the license.
Key	The key to activate the license.
Challenge	A system determined number that combined with the correct number provided by the dealer shows that your license is legal.
Maximum Number of Active Projects	The maximum number of active projects that can be registered.
Maximum Number of Active Project Developers	The maximum number of project developers for which projects can be active.
Maximum Number of Named Users	The maximum number of users that can access the application.
Maximum Number Invantive Control Users	Maximum number of named users for Invantive Control..
Maximum Work in Progress per Project	Maximum amount of work in progress per project.
Source	
Active Directory Gateway	Is checked when a link can be made using Active Directory to check user passwords.
ERP Gateway	Is checked when a link can be made with Exact or another ERP system.
Invantive Estate for Outlook	Checked if the Invantive Estate for Outlook can be used.
Languages	
Dutch	Checked if the application can be used in Dutch.
English	Checked if the application can be used in English.
German	Checked if the application can be used in German.
French	Checked if the application can be used in French.
Spanish	Checked if the application can be used in Spanish.
Russian	Checked if the application can be used in Russian.
Hindi	Checked if the application can be used in Hindi.
Modules	
Timeline	Checked if the timeline (time traveling) can be used.
Data security	Checked if data security can be used per individual project.
Document Management System	Checked if documents can be saved.
Web Services	Checked if Web Services can be used.
Customer Relationship Management	Checked if CRM functionality can be used.
Additional Business Rules	Checked if additional business rules can be used.
Cash Flow Projections	Checked if cash flow projections can be used.
Registration of hours worked	Checked if timesheets can be used.
Processes	Checked if processes can be used.
Units	Checked if units can be used.
Support Options	
Upgrades	Checked if you have a maintenance agreement with a right to new versions.
Help desk	Checked if you have a maintenance agreement with a right to help desk support.
Helpdesk Number	Helpdesk Nummer for the application.
Database	
Database Purchase Order	Purchase Order from the database supplier for the database license.

Database Helpdesk Number	The helpdesk number for the database.
Database License Description	Description of the database license.
Database Maximum Number of Named Users	The maximum number of named users for the database.
Database Maximum Number of Concurrent Users	The maximum number of simultaneous users for the database.
Database Maximum Number of CPUs	The maximum number of processors for the database.

The meaning of the other fields:

Element	Elements of the license.
Licensed	The permitted numbers per license element.
Used	The actual numbers per license element.

1.2.14 Help

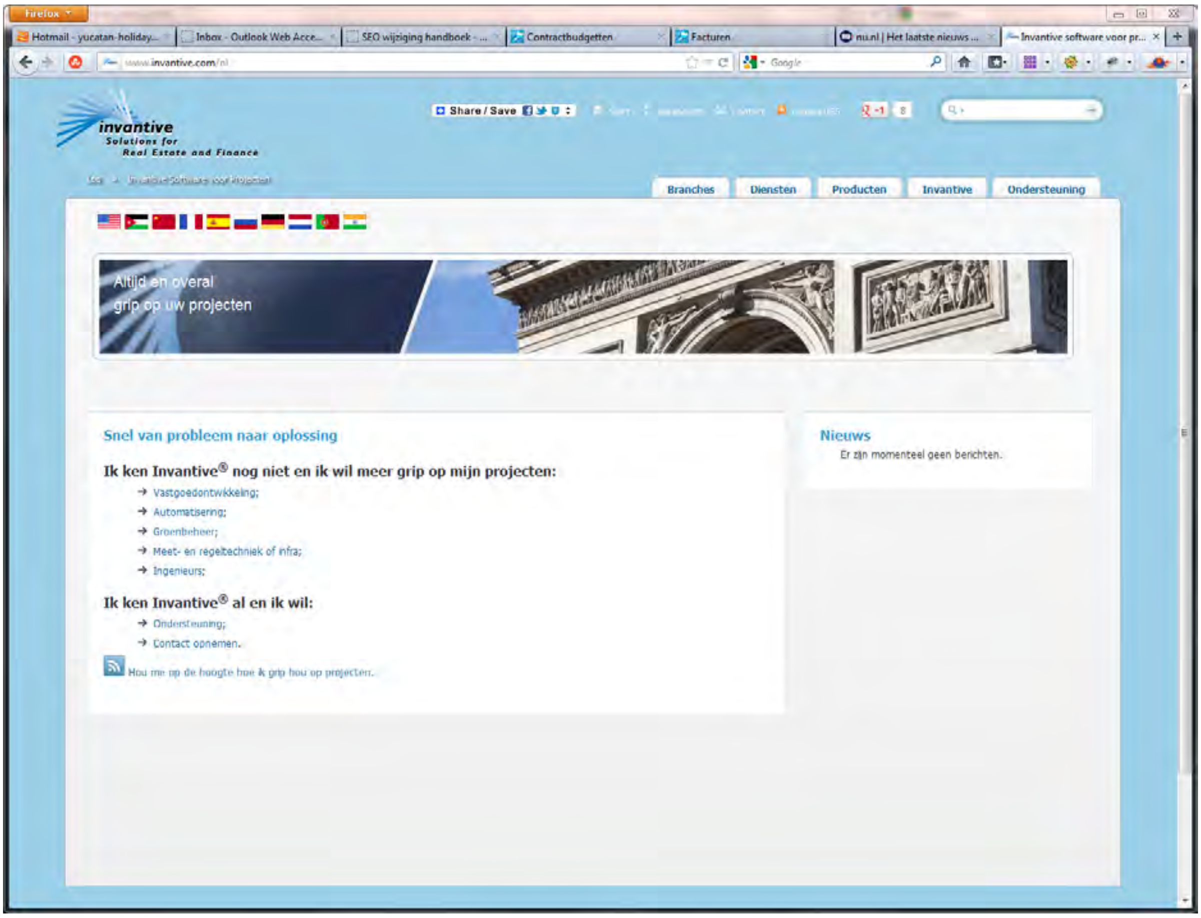
This section contains information about the functions which can normally be found under the menu item ‘Help’.

1.2.14.1 Help

Through this option in the menu the document you currently are reading will open. This document is the manual of Invantive Estate.

1.2.14.2 Invantive Website

This function opens the website of Invantive Software Ltd.


Firefox
Hotmail - yucatan-holiday...
Inbox - Outlook Web Acce...
SEO wijziging handboek - ...
Contractbudgetten
Facturen
nu.nl | Het laatste nieuws ...
Invantive software voor pr...
www.invantive.com/nl
Google
invantive
Solutions for Real Estate and Finance
Share / Save
Branches
Diensten
Producten
Invantive
Ondersteuning
Altijd en overal grip op uw projecten

Snel van probleem naar oplossing

Ik ken Invantive® nog niet en ik wil meer grip op mijn projecten:

- → Vastgoedontwikkeling;
- → Automatisering;
- → Groenbeheer;
- → Meet- en regeltechniek of infra;
- → Ingenieurs;

Ik ken Invantive® al en ik wil:

- → Ondersteuning;
- → Contact opnemen.

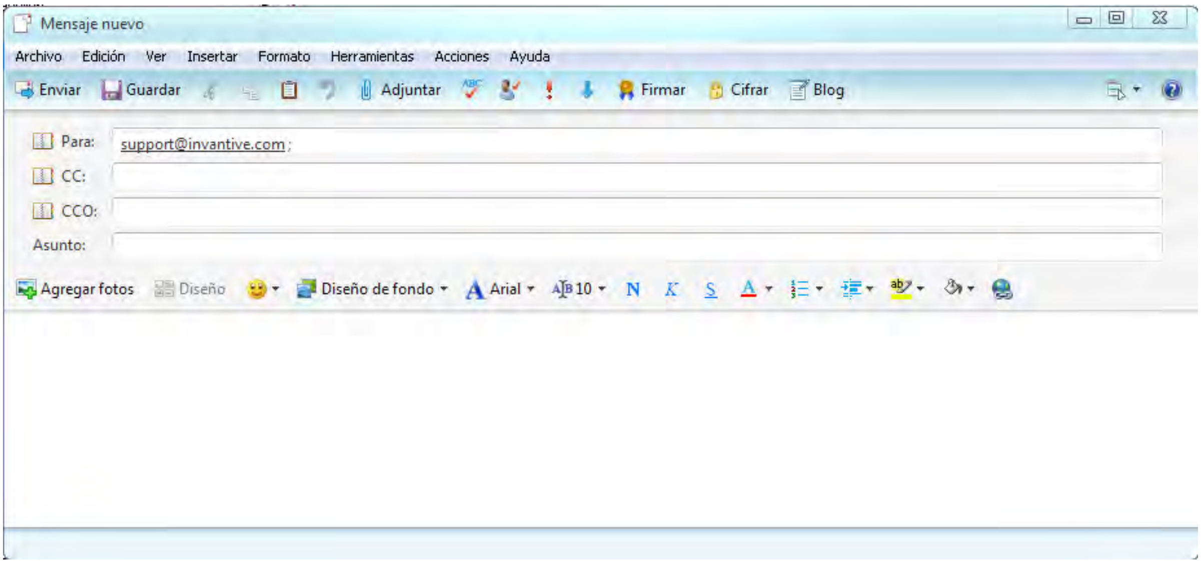
Hou me op de hoogte hoe ik grip hou op projecten.

Nieuws

Er zijn momenteel geen berichten.

1.2.14.3 Invantive Support

This function automatically sends you a pre-addressed e-mail for asking support at Invantive support.


Mensaje nuevo
Archivo Edición Ver Insertar Formato Herramientas Acciones Ayuda
Enviar Guardar Adjuntar Firmar Cifrar Blog
CC:
CCO:
Asunto:
Agregar fotos Diseño Diseño de fondo Arial 10 N K S

Para: support@invantive.com;

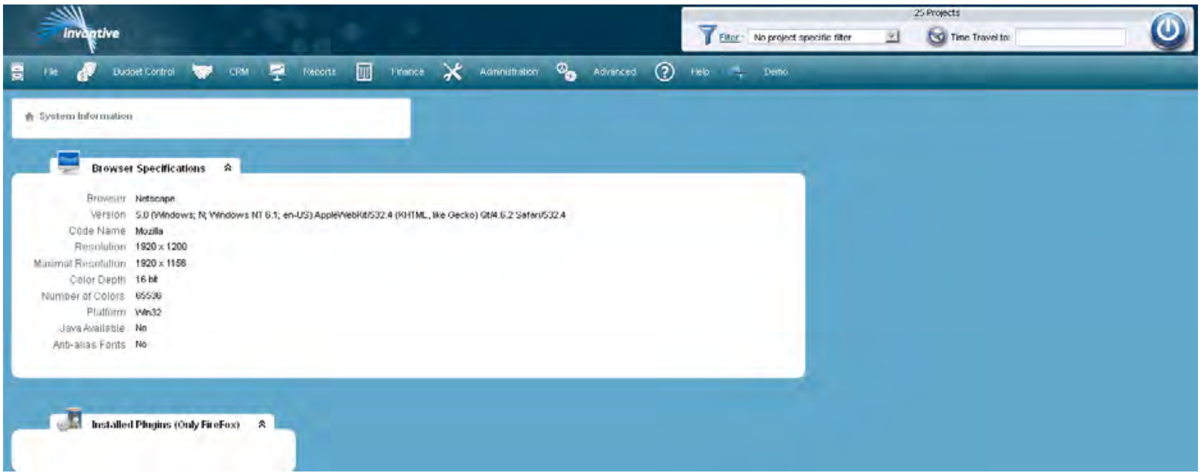
1.2.14.4 About

Enter text here.

1.2.14.5 System Information

This screen provides technical information concerning the used system.

The shown information can be used by Invantive support to analyse errors.


Invantive
25 Projects
Filter: No project specific filter
Time Travel to:
File Budget Control CRM Reports Finance Administration Advanced Help Demo
System Information
Browser Specifications
Installed Plugins (Only FireFox)

Browser Netscape
Version 5.0 (Windows; N; Windows NT 6.1; en-US) AppleWebKit/532.4 (KHTML, like Gecko) Qt/4.6.2 Safari/532.4
Code Name Mozilla
Resolution 1920 x 1200
Maximal Resolution 1920 x 1158
Color Depth 16 bit
Number of Colors 65536
Platform Win32
Java Available No
Anti-alias Fonts No

The meaning of the entry fields is:

Browser	the name of the used browser.
Version	The version of the browser. Only IE6, IE7, IE8, FF2, FF3 are supported. Version IE5.5 is not supported anymore.
Code Name	The code name from the used browser.
Resolution	The current maximum presentation capacity of the screen in pixels along the horizontal and vertical axes.
Maximal Resolution	The maximum presentation capacity of the form in pixels along the horizontal and vertical axes.
Color Depth	The maximum amount of colors as a power of 2.'8 means 256 colors.
Number of Colors	The maximum number of colors.

Platform	The used operating system.
Java Available	Is the Java virtual machine available?
Anti-alias Fonts	Are the fonts shown with anti-aliasing which make the italic lines seem smoother?

1.2.15 Customize Screens with JavaScript

Within Invantive Estate you can adjust screens dynamically for the local installation, without losing the changes when a new version is installed. When installing a new version you only need to check if the local adjustments still work properly.

This functionality can be used for:

- Placing a button that can be used for showing and printing the purchase order of a contract.
- Linking a house with a map of the area within a web application elsewhere.
- Placing a button that can be used to access the phone number of a relation in a phone directory.
- Placing a button that can be used to complete an online form of another web application, for example, to request additional budget.

To modify screens you need to insert HTML code in three places in the screens of Invantive Estate. This HTML code can be entered in the screen Settings 336. After modification you need to log off and log on again to activate the new settings for your web session.

The HTML code may call to JavaScript and may contain other valid HTML code, as long as the complete set of code is valid.

Notice! It is easy to harm the functioning of the web interface of Invantive Estate by adding incorrect or slow HTML code. For support purposes it may be asked to undo the adding of HTML code in the settings screen.

The recommended approach for the use of JavaScript:

- Create a file in the directory ‘local’ with local modifications. Name this file ‘xxNAME.js’, where ‘NAME’ will be replaced by the company name in small letters.
- Include the JavaScript functions ‘xxNAME_after_payload’and ‘xxNAME_before_payload’ (see below for an example).
- Include in ‘Local HTML Head’ the following (see also Customize Screens 348):

```
<styler LISTING>
<script language="JavaScript1.2" src="local/xxNAAM.js" ty-
pe="text/javascript"></script> </style LISTING>
```

- Include in ‘Local HTML Header ’ the following (see also Customize Screens 348):

```
<styler LISTING>
<script language="JavaScript" type="text/javascript"> xxNAAM_be-
fore_payload(); </script> </style LISTING>
```

- Include in ‘Local HTML Footer’ the following (see also Customize Screens 348):

```
<styler LISTING>
<script language="JavaScript" type="text/javascript"> xxNAAM_af-
ter_payload(); </script> </style LISTING>
```

For example, the contents of xxNAAM.js could be something like this:

```
<style LISTING>
//
// $Header: http://svn.invantive.com/repos/p104/trunk/help/nl/
manual/Topics/ontwikkeling-schermen-javascript.xml 21357 2013-
01-29 16:40:21Z nno $ // // (C) Copyright 2004-2011 Invantive
Software BV, the Netherlands. All rights reserved.
//
// JavaScript library with extensions for the default Invantive
Estate forms.
//

//
// The before_payload is executed after the head section of the
html and // within the body section, but before the contents of
the webpage.
//
function xxNAAM_before_payload()
{
  // Empty.
}

//
// The before_payload is executed after the head section of the
html and // within the body section, but after the contents of
the webpage.
//
function xxNAAM_after_payload()
{
  //
  // Disable contract number on purchase order form.
  // The contract number is auto-generated using a calculated
field.
  //
  // You may not disable the field. CodeCharge 3 then tries to
set it to null within SQL.
  // With CCS 4, this restriction has been lifted.
  //
  // You might use bubs_set_element_readonly as an alternative.
  //
  if (bubs_get_page() == "bubs_odt_all")
  {
    //
    // Make field gray.
    //
    BUBS_OPDRACHTEN_V1.ODT_VOLGNUMMER.style.backgroundCo-
lor="#cccccc";
    //
    // Associate events leading to a change with a function that
bails out with false and therefore
    // makes the event non-operable.
    //
    BUBS_OPDRACHTEN_V1.ODT_VOLGNUMMER.onkeypress = function()
    {
      window.event.returnValue = false;
      return false;
    };
    BUBS_OPDRACHTEN_V1.ODT_VOLGNUMMER.onkeydown = function()
    {
      window.event.returnValue = false;
      return false;
    };
  }
  //
  // Show a button for a purchase order PDF when on the purchase
order form.
  //
  // The button is only shown when a purchase order selected (as
signalled through ODT_ID as a GET-parameter on the URL).
  //
  if (bubs_get_page() == "bubs_odt_all" && bubs_get_parame-
ter("ODT_ID"))
  {
    document.write('<div id="customizations">');
    bubs_show_hyperlink_button('bubs_custom21_pdf_rpt.do?
P_ODT_ID=' + bubs_get_parameter("ODT_ID"), 'Opdrachtformulier
(PDF)');
    document.write('<p/>');
    document.write('</div>');
  }
  //
  // Create button on the projects page to an outside webpage.
  //
  // This is meant for the connection with the ERP system.
  //
  if (bubs_get_page() == "bubs_pjt_all" && bubs_get_parame-
ter("PJT_ID"))
  {
    document.write('<div id="customizations">');
                bubs_show_hyperlink_button
                ( 'http://my-erp-system/show-project-data?
PJT_CODE='
                + bubs_get_parameter("PJT_CODE")
                + "&"
                + esca-
pe(BUBS_PROJECTEN_V1.PJT_JURIDISCHE_EENHEID.value)
                , 'Open project in ERP'
                );
    document.write('<p/>');
    document.write('</div>');
  }
}
</style LISTING>
```

1.2.16 Edit Screen Template

De screens in Invantive Estate consist of a combination of data and a division into a 'template'. A template is an html file containing specific text to ensure that the information appears. You can customize the format with the help of your own templates.

It is also possible to customize the screens dynamically with JavaScript keeping the template. See Customize Screens with JavaScript 348.

Your own template is normally based on an existing template, for example, such as bubs_tak_all.html. The template can then be adjusted according to the capabilities of CodeCharge (see www.codecharge.com). These adjustments can be made with an HTML editor that does not change the existing comments.

To use your own template in a menu item, you need to add the URL parameter TEMPLATE_PATH. This URL should point to the path of your own template, for example, 'local/xxacme_tak_all_simple.html'.

Moreover, you need to add a URL parameter TEMPLATE_ORIG_PATH. This parameter contains the original name of the template that you want to replace. This additional URL is required to prevent that the URL parameter TEMPLATE_PATH, by mistake, will be applied to a different screen, for example, when opening a hyperlink.

The URL parameters TEMPLATE_PATH and TEMPLATE_ORIG_PATH can be added to menu item, see Menu Items 225.

Hint: use the Firefox extension URLParams to easily change the parameters.

Having the original template the next customizations are possible:

- Omit fields.
- Provide fields with a default value or a different design.
- Change locations of fields.
- Add pictures or work instructions.
- Add links to other websites.

You cannot remove completely one set of data (search, search results, create or change), but you can make this set invisible.

Customizing a template is relatively labor intensive and requires an inspection with each upgrade. It is often possible to achieve the required functionality with local HTML using the screen Settings 336.

1.2.17 HIde screen partially

The parts of a screen with a framework can be hidden. For this you use the following URL parameters:

- HIDE_SEARCH: search part.
- HIDE_GRID: search results.
- HIDE_DATAENTRY: enter/edit.
- HIDE_GRIDDETAIL: search results of details.
- HIDE_DATAENTRYDETAIL: enter/edit of details.

The part is hidden during the composing of the screen if a certain parameter gets the value 'Y'.

1.2.18 Building Reports

This chapter provides information on how you can build reports that seamlessly integrate in Invantive Estate.

The reports are built using JasperReports and (optional) PL/SQL.

It is not always possible to retain the functioning of reports over releases of Invantive Estate. With an upgrade you need to check if the reports still function properly.

Each release of Invantive Estate can use a different version of JasperReports. Always use the version of JasperReports which belongs to the file named jasperreports-x.y.z.jar in the folder web/Web-INF/lib of Apache Tomcat. For designing reports, we recommend using iReport.

A report consists of several elements:

- Menu: a menu item in the menu that the user can select.
- Pre-report trigger: a program in PL/SQL that prepares or change data before the execution of the report.
- Report: the actual report that combines data with the desired layout
- Post-report trigger: a program in PL/SQL that after the execution will clean up or change the temporary data.

The following sections explain how you can build a report.

1.2.18.1 Menu

For customized reports, fifty reports are predefined, numbered bubs_custom01 to bubs_custom49. For these fifty functions are available. These functions are called bubs_customXX_pdf_rpt or bubs_customXX_xls_rpt.

Follow the next steps to make the menu items available to the users:

- Determine which users need access to the report.
- If necessary, create a role in Roles 158.
- Assign to the role of this user the rights on the function in Role Authorisations 159.

1.2.18.2 Pre-report and Post-report Trigger

The pre-report trigger is a PL/SQL stored procedure that is called up before the execution of the actual report. The post-report trigger is a PL/SQL stored procedure that is called after the actual implementation of the report.

These stored procedures are performed in a package. This package requires the name of the report, followed by '_rpt', for example 'bubs_custom01_rpt'. The procedure pre_report is performed as pre-report trigger and the procedure post_report as post-report trigger.

An example of such a package is:

```
create or replace package bubs_custom01_rpt
as
/*
 *
 * $Header: http://svn.invantive.com/repos/p104/trunk/help/nl/
manual/Topics/rap-bouwen-pre-report-trigger.xml 19891 2012-10-09
13:23:03Z gle3 $
 *
 * (C) Copyright 2004-2009 Invantive Software BV, the Nether-
lands. All rights reserved..
 *
 */
procedure pre_report
( p_functie bubs_functies_v.fte_code%type
)
```

```
;
procedure post_report
( p_functie bubs_functies_v.fte_code%type
)
;
--
-- Return the version ID of CVS for the package.
--
function get_version_id
return varchar2
;
end;
/

grant execute on bubs_custom01_rpt to &&bubs_user_role
/

create or replace package body bubs_custom01_rpt
as
/*
 *
 * $Header: http://svn.invantive.com/repos/p104/trunk/help/nl/
manual/Topics/rap-bouwen-pre-report-trigger.xml 19891 2012-10-09
13:23:03Z gle3 $
 *
 * (C) Copyright 2004-2009 Invantive Software BV, the Nether-
lands. All rights reserved..
 *
 */
procedure pre_report
( p_functie bubs_functies_v.fte_code%type
)
as
begin
  null;
end
;
procedure post_report
( p_functie bubs_functies_v.fte_code%type
)
as
begin
  null;
end
;
--
-- Return the version ID of CVS for the package.
--
function get_version_id
return varchar2
as
begin
  return '$Header: http://svn.invantive.com/repos/p104/trunk/
help/nl/manual/Topics/rap-bouwen-pre-report-trigger.xml 19891
2012-10-09 13:23:03Z gle3 $';
```

```
end;

end;
/
```

The pre-report trigger can be used to improve performance by preparing and storing common data in a temporary table or to feed the report with different data, depending on the settings of the user. For example, the following pre-report trigger is used to fill a report with data of the current situation if that is possible and with historical data if such is requested:

```
  --
  -- Delete possible remaining data from a previous report on the same connection.
  --
  delete bubs_fdt_t
  ;
  commit
  ;
  if bubs_session.get_session_reporting_date is null
  then
    --
    -- Current situation requested.
    --
    insert into bubs_fdt_t
    select * from bubs_fdt_r
    ;
    commit
    ;
  else
    --
    -- Historical situation requested.
    -- Somewhat slower.
    --
    insert into bubs_fdt_t
    select * from bubspfdt_r
    ;
    commit
    ;
  end if;
```

The post-report trigger is then:

```
  delete bubs_fdt_t
  ;
  commit
  ;
```

For example, it is also possible to highlight in the pre-report trigger the information that needs to be printed and to highlight them in the post-report trigger as being ‘reported’.

Normally the post-report trigger is only used to remove temporary data.

1.2.18.3 Report

The report is built in Jasper Reports. As a report needs to log on to the middle tier, the report gets via the parameter REPORT_CONNECTION a prepared database connection for the user. This database connection has to be passed on to subreports.

The web page will pass on all GET and POST parameters to the report. The value of GET and POST parameters can be used in the report if a report parameter exists with the same name.

In addition the following parameters will always be delivered:

- P_SYSDATE_C: the date and time of the first report being executed, formatted for use in the report as a String. For use in combination with subfunctions to always use the same time.
- P_PAGENUMBER_OFFSET: contains the number of pages filled prior to this report if a function consists of several subreports with the help of Subfunctions 251. Is 0 in all other cases. Can be used to have a correct page numbering when using several subfunctions. P_PAGENUMBER_OFFSET is passed on as an integer.
- P_CONNECTION_ESTATE: an already open connection with Invantive Estate, based on the class java.sql.Connection.
- P_CONNECTION_REPORT: an already open connection as specified for the report, based on the class java.sql.Connection. Has the same connection as REPORT_CONNECTION.
- P_URL: the URL used to open the report.
- RPT_CODE: the code of the report that is running, not taking into account if code which was passed on via FTE_ID or possibly via MIM_ID or via FTE_CODE in the URL.
- P_CIG_OMSCHRIJVING_LANG: long description of the filter.
- P_CIG_OMSCHRIJVING: description of the filter.
- P_MAT_SERVER_PREFIX_URL: prefix for web pages of the application.
- P_MAT_REQUEST_URL_HOOFDMENU: the URL from the main menu of the web frontend.
- P_MAT_LOGO_URL: URL to the logo to print each page (LOGO_BKG_URL uit bubs_mijn_rechten_r).
- P_MAT_LOGO_URL_ULT: URL to the most specified logo to print each page. The most-specified logo is: when there is 1 logo that applies for all projects in the filter, choose that. Otherwise, if there is 1 logo that applies for al project entities, choose that. Otherwise, the system-wide logo, which is also to be found in P_MAT_LOG_URL (LOGO_BKG_URL uit bubs_mijn_rechten_r).
- P_MAT_GBR_AANMELD_CODE: registration code of the current user.
- P_ISG_ONDERTITEL_LOGO_RAPPORTEN: subtitle for the logo.

1.2.18.4 Subreports

You can use subreports. For this parameters must be set by opening the Properties of the subreport in the main report. The following parameters have to be set:

- Possible parameters that limits the results of the query in the subreport to the relevant information of the master project. A common parameter is P_PJT_CODE for the project. In the main report this is filled with the project code with the help of for example ‘$F{PJT_CODE}’.
- The Subreport Parameters need to have the next values:
    - REPORT_RESOURCE_BUNDLE: this parameter should be filled with ‘$P{REPORT_RESOURCE_BUNDLE}’. This will ensure that the report will get the same translations as the main report.
    - REPORT_LOCALE: this parameter should be filled with ‘$P{REPORT_LOCALE}’. This will ensure that the report will get the same translations as the main report.

- The field Connection Expression: this should be filled in with ‘$P{REPORT_CONNECTION}’, to assure that the subreport shares the same database connection with the main report.
- The location of the subreport is either filled with the URL of the report, for example, ‘http://SERVER/tbubs/bubs_custom_sub1.jasper’, or is calculated via a column in the query. The use of a query is recommended since the report will take transparently the appropriate report file in any environment. The preferred name for this column is SUBREPORT<number>_URL and the value will be filled with ‘$F{SUBREPORT<number>_URL}’.

1.2.18.5 Error reports

The following error appears when the parameters of the Jasper subreport are not filled in. The solution is to provide the subreport parameters, see Subreports 355.

```
An error occurred during processing the report. Please contact
support.

Phase Fill report
Error message:
java.lang.RuntimeException: Filling the report bubs_custom26
failed: java.util.MissingResourceException: Can't find bundle
for base name bubs, locale nl_NL
```

```
An error occurred during processing the report. Please contact support.
Phase Fill report
Error message:
java.lang.RuntimeException: Filling the report bubs_custom26 failed: java.util.MissingResourceException: Can't find bundle for base name bubs, locale nl_NL
at java.util.ResourceBundle.throwMissingResourceException(Unknown Source)
at java.util.ResourceBundle.getBundleImpl(Unknown Source)
at java.util.ResourceBundle.getBundle(Unknown Source)
at net.sf.jasperreports.engine.util.JRResourcesUtil.loadResourceBundle(JRResourcesUtil.java:568)
at net.sf.jasperreports.engine.util.JRResourcesUtil.loadResourceBundle(JRResourcesUtil.java:506)
at net.sf.jasperreports.engine.fill.JRFillDataset.loadResourceBundle(JRFillDataset.java:529)
at net.sf.jasperreports.engine.fill.JRFillDataset.setParameterValues(JRFillDataset.java:564)
at net.sf.jasperreports.engine.fill.JRBaseFiller.setParameters(JRBaseFiller.java:1246)
at net.sf.jasperreports.engine.fill.JRBaseFiller.fill(JRBaseFiller.java:877)
at net.sf.jasperreports.engine.fill.JRBaseFiller.fill(JRBaseFiller.java:826)
at net.sf.jasperreports.engine.fill.JRFillSubreport.fillSubreport(JRFillSubreport.java:557)
at net.sf.jasperreports.engine.fill.JRSubreportRunnable.run(JRSubreportRunnable.java:59)
at net.sf.jasperreports.engine.fill.JRThreadSubreportRunner.run(JRThreadSubreportRunner.java:205)
at java.lang.Thread.run(Unknown Source)

at com.codecharge.util.JasperReports.getReport(JasperReports.java:1280)
at com.codecharge.util.JasperReports.runReportList(JasperReports.java:1665)
at com.codecharge.util.JasperReports.runReport(JasperReports.java:1811)
at com.codecharge.util.JasperReports.runReport(JasperReports.java:1831)
at bubs_custom26_pdf_rpt.bubs_custom26_pdf_rptPageHandler.beforeShow(bubs_custom26_pdf_rptPageHandler.java:51)
at com.codecharge.components.Page.fireBeforeShowEvent(Page.java:779)
at com.codecharge.View.init(View.java:1823)
at bubs_custom26_pdf_rpt.bubs_custom26_pdf_rptView.getContent(bubs_custom26_pdf_rptView.java:27)
at com.codecharge.ViewerServlet.service(ViewerServlet.java:50)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:717)
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:290)
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)
at org.apache.catalina.core.ApplicationDispatcher.invoke(Appli-
cationDispatcher.java:646)
at org.apache.catalina.core.ApplicationDispatcher.processRe-
quest(ApplicationDispatcher.java:436)
at org.apache.catalina.core.ApplicationDispatcher.doForward(Ap-
plicationDispatcher.java:374)
at org.apache.catalina.core.ApplicationDispatcher.forward(Appli-
cationDispatcher.java:302)
at com.codecharge.ControllerServlet.passControl(ControllerSer-
vlet.java:196)
at com.codecharge.ControllerServlet.service(ControllerSer-
vlet.java:172)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:717)
at org.apache.catalina.core.ApplicationFilterChain.inter-
nalDoFilter(ApplicationFilterChain.java:290)
at org.apache.catalina.core.ApplicationFilterChain.doFilter(Ap-
plicationFilterChain.java:206)
at org.apache.catalina.core.StandardWrapperValve.invoke(Standar-
dWrapperValve.java:233)
at org.apache.catalina.core.StandardContextValve.invoke(Standar-
dContextValve.java:191)
at org.apache.catalina.core.StandardHostValve.invoke(Standar-
dHostValve.java:127)
at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorRe-
portValve.java:102)
at org.apache.catalina.core.StandardEngineValve.invoke(Standar-
dEngineValve.java:109)
at org.apache.catalina.connector.CoyoteAdapter.service(Coyo-
teAdapter.java:298)
at org.apache.coyote.http11.Http11Processor.process(Http11Pro-
cessor.java:852)
at org.apache.coyote.http11.Http11Protocol$Http11ConnectionHand-
ler.process(Http11Protocol.java:588)
at org.apache.tomcat.util.net.JIoEndpoint$Worker.run(JIoEnd-
point.java:489)
at java.lang.Thread.run(Unknown Source)
```

1.2.18.6 MIME types for Reports

Deviating MIME types for reports can be specified in the URL via the reportparameter MIME_TYPE. These parameters can have the next values:

- application/pdf (.pdf). PDF is a page description language which accurately displays the layout, fonts and images of the source file. PDF files can be viewed with Adobe Reader and give identical results on each platform.
  Any extra URL-parameters will be saved as 'custom properties' at the PDF. This way you can quickly and easily structured add metadata to PDF reports.
- text/xml (.xml).
- text/csv (csv)
- text/plain (txt)
- text/html (html)
- application/vnd.openxmlformats-officedocument.presentationml.presentation (pptx)
- application/vnd.google-earth.kml+xml (.kml).
- application/rtf (.rtf).

- application/vnd.oasis.opendocument.text (.odt).
- application/vnd.oasis.opendocument.spreadsheet (.ods).
- application/vnd.openxmlformats-officedocument.wordprocessingml.document (.docx).

1.2.18.7 Other Report Parameters

The following parameters can be passed via the URL to a report:

- ADD_CUSTOM_PROPS: By default, the Adobe PDF custom properties will be filled with a list of the elements in the report. If this parameter is 'N', then the customer properties will not be filled. When there is a large amount of elements in the report (over 100) it is recommended to add ADD_CUSTOM_PROPS because retrieving the custom properties will take a substantial amount of time.
- ADD_BOOKMARKS: By default, a table of contents is added to Adobe PDF documents. If this parameter is 'N', no table of contents will be added.
- ADD_BOOKMARK_THIS_REPORT: By default, the first element in the table of contents of a Adobe PDF document is an URL to the source of the report . If this parameter is 'N', the first element will not be included in the table of contents.
- REPORT_RESOURCE_BUNDLE_NAME_OVERRIDE: the prefix of the filename where the resources are in the form $R{} are used to translate the report. By default, this is the value of the setting messagesBundleReport in the site.properties.
- SUPPRESS_FILTER_IN_PARS: the filter is not in the list of parameters that are left above on every report if this parameter has the value 'Y'. For example for custom modules that the user filter does not use.
- SUPPRESS_FUNCTION_IN_PARS: The function code is not on the list of parameters that are left above on every report if this parameter has the value 'Y'.
- FILENAME_ADDITION:a text that is inserted into the filename of the output of the report. This text is in between the name of the report and the date/time.

In FILENAME_ADDITION you can capture values of parameters so that the generated output file also displays information about any project, person or period in question. You can capture a parameter with the text ':PARAM[x]'. For 'x' enter the name of the parameter as specified in the screen Functions 249.

1.2.18.8 Pass Report Parameters via URL

For the various output formats, you can pass report parameter values via the URL .

For example P_OFFSET_X = 100 ensures that each page in a PDF moves 100 pixels to the right.

The following code gives a description of the possible parameters.

```
static void setGenericExporterOptions

( JRExporter exporter
, Map        parameters
)
{
  String    stringType  = "empty";
  Integer   integerType = 1;
  Character characterType = 'a';
  Float     floatType = 1.0f;
  Boolean   booleanType = true;
  //
  // Boolean moet worden opgegeven als string "true" of "false
".
  //
  // Algemeen. Voor alle uitvoer formaten.
  //
  //
  // Codering kan gevonden worden op http://download.oracle.com/
javase/1.3/docs/guide/intl/encoding.doc.html en bevat:
  //
  // * ASCII: American Standard Code for Information Interchange
  // * Cp1252: Windows Latin-1
  // * ISO8859_1: ISO 8859-1, Latin alphabet No. 1
  // * Cp500: EBCDIC 500V1
  // * UTF-8: Eight-bit Unicode Transformation Format
  // * UTF-16: Sixteen-bit Unicode Transformation Format, byte
order specified by a mandatory initial byte-order mark.
  //
  setParameterWhenProvided(exporter, parameters,
"P_CHARACTER_ENCODING", JRExporterParameter.CHARACTER_ENCODING,
"De tekencodering die wordt gebruikt voor de export.", "UTF-8",
stringType);
  setParameterWhenProvided(exporter, parameters, "P_OFFSET_X",
JRExporterParameter.OFFSET_X, "Een parameter waarmee gebruikers
de volledige inhoud van elke pagina horizontaal kunnen verplaat-
sen.", null, integerType);
  setParameterWhenProvided(exporter, parameters, "P_OFFSET_Y",
JRExporterParameter.OFFSET_Y, "Een parameter waarmee gebruikers
de volledige inhoud van elke pagina verticaal kunnen verplaat-
sen.", null, integerType);
  //
  // Tekst formaat.
  //
  setParameterWhenProvided(exporter, parameters,
"P_BETWEEN_PAGES_TEXT", JRTextExporterParame-
ter.BETWEEN_PAGES_TEXT, "Een tekenreeks in de vorm van tekst die
wordt ingevoegd tussen de pagina's van het gegenereerde rap-
port.", null, stringType);
  setParameterWhenProvided(exporter, parameters,
"P_CHARACTER_HEIGHT", JRTextExporterParameter.CHARACTER_HEIGHT,
"Een geheel getal dat de verticale verhouding tussen pixel/ka-
rakter geeft.", null, floatType);
  setParameterWhenProvided(exporter, parameters,
"P_CHARACTER_WIDTH", JRTextExporterParameter.CHARACTER_WIDTH,
"Een geheel getal dat de horizontale verhouding tussen pixel/ka-
rakter geeft.", null, floatType);
  setParameterWhenProvided(exporter, parameters,
"P_LINE_SEPARATOR", JRTextExporterParameter.LINE_SEPARATOR, "Een
tekenreeks in de vorm van een scheiding tussen twee regels
tekst.", null, stringType);
```

```
  setParameterWhenProvided(exporter, parameters, "P_PAGE_HEIGHT", JRTextExporterParameter.PAGE_HEIGHT, "Een geheel getal dat de paginahoogte in karakters geeft.", null, integerType);
  setParameterWhenProvided(exporter, parameters, "P_PAGE_WIDTH", JRTextExporterParameter.PAGE_WIDTH, "Een geheel getal dat de paginabreedte in karakters geeft.", null, integerType);
  //
  // Docx formaat.
  //
  setParameterWhenProvided(exporter, parameters, "P_FLEXIBLE_ROW_HEIGHT", JRDocxExporterParameter.FLEXIBLE_ROW_HEIGHT, "Geeft aan of een tabelrij kan groeien als er meer tekst wordt toegevoegd in een cel.", null, booleanType);
  setParameterWhenProvided(exporter, parameters, "P_FRAMES_AS_NESTED_TABLES", JRDocxExporterParameter.FRAMES_AS_NESTED_TABLES, "Geeft aan of frames worden geëxporteerd als geneste tabellen.", null, booleanType);
  //
  // Html formaat.
  //
  setParameterWhenProvided(exporter, parameters, "P_BETWEEN_PAGES_HTML", JRHtmlExporterParameter.BETWEEN_PAGES_HTML, "Een tekenreeks in de vorm van HTML-code die zal worden ingevoegd tussen de pagina's van het gegenereerde rapport.", null, stringType);
  setParameterWhenProvided(exporter, parameters, "P_FRAMES_AS_NESTED_TABLES", JRHtmlExporterParameter.FRAMES_AS_NESTED_TABLES, "Geeft aan of frames worden geëxporteerd als geneste HTML-tabellen.", null, booleanType);
  setParameterWhenProvided(exporter, parameters, "P_HTML_FOOTER", JRHtmlExporterParameter.HTML_FOOTER, "Een tekenreeks in de vorm van HTML-code die zal worden ingevoegd na het gegenereerde rapport.", null, stringType);
  setParameterWhenProvided(exporter, parameters, "P_HTML_HEADER", JRHtmlExporterParameter.HTML_HEADER, "Een tekenreeks in de vorm van HTML-code die zal wordt ingevoegd voor het gegenereerde rapport.", null, stringType);
  setParameterWhenProvided(exporter, parameters, "P_IS_REMOVE_EMPTY_SPACE_BETWEEN_ROWS", JRHtmlExporterParameter.IS_REMOVE_EMPTY_SPACE_BETWEEN_ROWS, "Een boolean die aangeeft of de blanco lijnen, die soms verschijnen tussen de rijen, moet worden verwijderd.", null, booleanType);
  setParameterWhenProvided(exporter, parameters, "P_IS_USING_IMAGES_TO_ALIGN", JRHtmlExporterParameter.IS_USING_IMAGES_TO_ALIGN, "Een boolean die aangeeft of de uitvoer module kleine afbeeldingen voor het uitlijnen dient te gebruiken.", null, booleanType);
  setParameterWhenProvided(exporter, parameters, "P_IS_WHITE_PAGE_BACKGROUND", JRHtmlExporterParameter.IS_WHITE_PAGE_BACKGROUND, "Een boolean die aangeeft of de rapport achtergrond wit is.", null, booleanType);
  setParameterWhenProvided(exporter, parameters,
"P_IS_WRAP_BREAK_WORD", JRHtmlExporterParame-
ter.IS_WRAP_BREAK_WORD, "Een boolean die aangeeft of de export
module regelafbreking door het opsplitsen van woorden (CSS word-
wrap: break-woord) moet toepassen.", null, booleanType);
  setParameterWhenProvided(exporter, parameters, "P_SIZE_UNIT",
JRHtmlExporterParameter.SIZE_UNIT, "Een waarde die de te gebrui-
ken eenheid aangeeft bij het meten van lengte of de tekengroot-
te.", null, stringType);
  setParameterWhenProvided(exporter, parameters, "P_ZOOM_RATIO",
JRHtmlExporterParameter.ZOOM_RATIO, "De zoomfactor die wordt ge-
bruikt voor de uitvoer.", null, floatType);
  //
  // Csv formaat.
  //
  setParameterWhenProvided(exporter, parameters,
"P_FIELD_DELIMITER", JRCsvExporterParameter.FIELD_DELIMITER,
"Een tekenreeks in de vorm van een karakter of volgorde van ka-
rakters die wordt gebruikt om twee velden af te bakenen op de-
zelfde lijn.", null, stringType);
  setParameterWhenProvided(exporter, parameters,
"P_RECORD_DELIMITER", JRCsvExporterParameter.RECORD_DELIMITER,
"Een tekenreeks in de vorm van een karakter of volgorde van ka-
rakters die wordt gebruikt om twee lijnen af te bakenen.", null,
stringType);
  //
  // Pdf formaat.
  //
  setParameterWhenProvided(exporter, parameters,
"P_FORCE_LINEBREAK_POLICY", JRPdfExporterParame-
ter.FORCE_LINEBREAK_POLICY, "Indicator die aangeeft of de PDF-
exportmodule gebruik maakt van een SplitCharacter implementatie
die ervoor zorgt dat rapportteksten door iText op dezelfde wijze
in lijnen worden opgesplitst als door het vulling proces.",
null, booleanType);
  setParameterWhenProvided(exporter, parameters,
"P_FORCE_SVG_SHAPES", JRPdfExporterParameter.FORCE_SVG_SHAPES,
"Indicator die aangeeft dat bij het creeren van SVG-beelden in
de PDF Graphics2D omgeving, vormen gebruikt dienen te worden.",
null, booleanType);
  setParameterWhenProvided(exporter, parameters,
"P_IS_128_BIT_KEY", JRPdfExporterParameter.IS_128_BIT_KEY, "Een
boolean die aangeeft of de coderingssleutel 128 bits is.", null,
booleanType);
  setParameterWhenProvided(exporter, parameters,
"P_IS_COMPRESSED", JRPdfExporterParameter.IS_COMPRESSED, "Een
boolean die aangeeft of het PDF-document moet worden gecompri-
meerd.", null, booleanType);
  setParameterWhenProvided(exporter, parameters,
"P_IS_CREATING_BATCH_MODE_BOOKMARKS", JRPdfExporterParame-
ter.IS_CREATING_BATCH_MODE_BOOKMARKS, "Een boolean die aangeeft
of het PDF-document een inhoudsopgave bevat", null, booleanTy-
pe);
```

```
  setParameterWhenProvided(exporter, parameters,
"P_IS_ENCRYPTED", JRPdfExporterParameter.IS_ENCRYPTED, "Een
boolean die aangeeft of het uiteindelijke document versleuteld
moet worden.", null, booleanType);
  setParameterWhenProvided(exporter, parameters, "P_IS_TAGGED",
JRPdfExporterParameter.IS_TAGGED, "Geeft aan of het exportmodule
structuur tags dient op te nemen in het gegenereerde PDF-docu-
ment.", null, booleanType);
  setParameterWhenProvided(exporter, parameters,
"P_METADATA_AUTHOR", JRPdfExporterParameter.METADATA_AUTHOR, "De
Auteur van het PDF-document.", null, stringType);
  setParameterWhenProvided(exporter, parameters,
"P_METADATA_CREATOR", JRPdfExporterParameter.METADATA_CREATOR,
"De Ontwerper of de Bronapplicatie van het PDF-document.", null,
stringType);
  setParameterWhenProvided(exporter, parameters,
"P_METADATA_KEYWORDS", JRPdfExporterParameter.METADATA_KEYWORDS,
"De trefwoorden van het PDF-document weergegeven als door kom-
ma's gescheiden tekst.", null, stringType);
  setParameterWhenProvided(exporter, parameters,
"P_METADATA_SUBJECT", JRPdfExporterParameter.METADATA_SUBJECT,
"Het onderwerp van het PDF-document.", null, stringType);
  setParameterWhenProvided(exporter, parameters,
"P_METADATA_TITLE", JRPdfExporterParameter.METADATA_TITLE, "Het
titel van het PDF-document.", null, stringType);
  setParameterWhenProvided(exporter, parameters,
"P_OWNER_PASSWORD", JRPdfExporterParameter.OWNER_PASSWORD, "Het
wachtwoord behorende tot het eigenaar van het document als het
document gecodeerd is.", null, stringType);
  setParameterWhenProvided(exporter, parameters,
"P_PDF_JAVASCRIPT", JRPdfExporterParameter.PDF_JAVASCRIPT, "Het
door de gebruiker gedefinieerde stukje JavaScript code dat wordt
ingevoegd in het gegenereerde PDF-document.", null, stringType);
  setParameterWhenProvided(exporter, parameters,
"P_PERMISSIONS", JRPdfExporterParameter.PERMISSIONS, "Een inte-
ger die de rechten voor het gegenereerde PDF-document aan-
geeft.", null, integerType);
  setParameterWhenProvided(exporter, parameters,
"P_PRINT_SCALING", JRPdfExporterParameter.PRINT_SCALING, "Para-
meter die de schaalvoorkeur in het dialoogvenster PDF-afdrukken
definieert.", null, stringType);
  setParameterWhenProvided(exporter, parameters,
"P_TAG_LANGUAGE", JRPdfExporterParameter.TAG_LANGUAGE, "Specifi-
ceert de taal die de exportmodule meegeeft aan de taal-tag van
de gegenereerde PDF.", null, stringType);
  setParameterWhenProvided(exporter, parameters,
"P_USER_PASSWORD", JRPdfExporterParameter.USER_PASSWORD, "De be-
nodigde gebruikerswachtwoord om het document te openen als het
wordt document gecodeerd is.", null, stringType);
//  setParameterWhenProvided(exporter, parameters, "P_", JRPd-
fExporterParameter., "", null);
```

1.2.18.9 Multiple Reporting Periods in one Report

You can report within a report about multiple reporting dates. With this, for example, you can use project versions. The following example prints a statistic for a number of reporting dates.

```
declare
  l pls_integer;
begin
  --
  -- Logon.
  --
  bubs_session.set_session_info('bubs_install.sql', 'install',
'system', 'various', sys_Filter('userenv', 'ip_address'), sys-
_Filter('userenv', 'host'), 'n/a', '$Header: http://svn.invanti-
ve.com/repos/p104/trunk/help/nl/manual/Topics/rap-bouwen-meerde-
re-rapportage-perioden-in-een-rapport.xml 19891 2012-10-09
13:23:03Z gle3 $');
  --
  -- For all project versions matching the filter plus the cur-
rent time, we
  -- will print an overview of a statistic.
  --
  for r in
  ( select pjt_code
    ,      pve_code
    ,      pve_datum_rapportage
    from   bubs_project_versies_v
    where  1=1
    and    pve_datum_rapportage <= sysdate
    and    regexp_instr(pve_code, coalesce(cig_patroon_project_-
versies, '^') ) > 0
    union all
    select distinct pjt_code
    ,      bubs#vertalingen.translate_keys('{res:bubs_now}')
    ,      null
    from   bubs_project_versies_v
    order
    by     pjt_code
    ,      pve_datum_rapportage
  )
  loop
    --
    -- Travel to the right moment in time.
    --
    bubs_session.set_point_in_time(r.pve_datum_rapportage);
    --
    -- Determine the statistics. Simple example.
    --
    select count(*) cnt
    into   l
    from   bubspopbrengst_soorten_v
    ;
    --
    -- Print results.
    --
    dbms_output.put_line(r.pjt_code || ', ' || rpad(r.pve_code,
30) || ', ' || rpad(to_char(r.pve_datum_rapportage, 'yyyymmddh-
h24miss'), 14) || ' = ' || l);
  end loop;
end;
```

1.2.18.10 Watermarked or Preprinted Stationary

Invantive Estate can provided PDF output with a watermark or preprinted stationery. This watermark or preprinted stationery needs to be available in PDF format in the web directory.

By modifying the name PL/SQL function of the watermark in the screen Settings 336 you can use your own function to determine the watermark based on the name of the report, the length and wide, the user, the page number etc.

1.2.18.11 Custom Formatted Text in a Report Field

In iReport you can, if the report is exported as PDF, use the option ‘Is styled text’ to give a format to a report field. You can set or change this option yourself.

1.2.19 Input with Layout

In settings you can upload texts that are shown in reports with a specific layout.

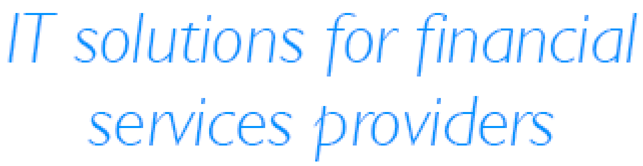
Place the text between <style> tags or use the following HTML tags: <b>, <u>, <i>, <font>, <li> and <br>. The <style> tag has several attributes to change color, font and other stylistic properties. The possibilities are incorporated into the following DTD structure:

```
<!ELEMENT style (style*, b*, u*, i*, font*, li*, br*)*>
<!ATTLIST style
  fontName      CDATA   #IMPLIED
  size          NMTOKEN #IMPLIED
  pdfFontName   CDATA   #IMPLIED
  pdfEncoding   CDATA   #IMPLIED
  forecolor     CDATA   #IMPLIED
  backcolor     CDATA   #IMPLIED
  isBold          (true | false) #IMPLIED
  isItalic        (true | false) #IMPLIED
  isUnderline     (true | false) #IMPLIED
  isStrikeThrough (true | false) #IMPLIED
  isPdfEmbedded   (true | false) #IMPLIED
>
<!ATTLIST font
  fontFace CDATA   #IMPLIED
  color    CDATA   #IMPLIED
  size     NMTOKEN #IMPLIED
>
```

Some examples:

```
<style fontName="GillSans" size="16" pdfFontName="gillsli_.ttf"
isPdfEmbedded="true" forecolor="#0091ff">IT solutions for<br /
>financial services providers</style>
```

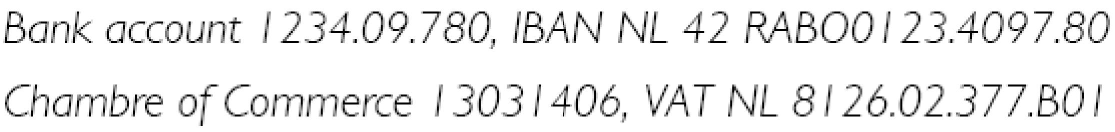
Result:



IT solutions for financial
services providers

```
<style fontName="GillSans" size="8" pdfFontName="gillsli_.ttf"
isPdfEmbedded="true">Bank account <b>1234.09.780</b>, IBAN NL 42
RABO0123.4097.80<br />Chamber of Commerce 13031406, VAT NL
8126.02.377.B01</style>
```

Result:

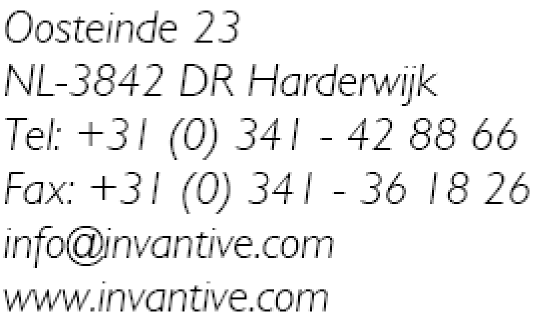


Bank account 1234.09.780, IBAN NL 42 RABO0123.4097.80

Chambre of Commerce 13031406, VAT NL 8126.02.377.B01

```
<style fontName="GillSans" size="8" pdfFontName="gillsli_.ttf"
isPdfEmbedded="true">Oosteinde 23<br />NL-3842 DR Harderwijk<br />Tel: +31 (0) 341 - 42 88 66<br />Fax: +31 (0) 341 - 36
18 26<br />info@invantive.com<br />http://<style forecolor="#0091ff">www.invantive.com</style></style>
```

Result:



Oosteinde 23
NL-3842 DR Harderwijk
Tel: +31 (0) 341 - 42 88 66
Fax: +31 (0) 341 - 36 18 26
info@invantive.com
www.invantive.com

Note that the fonts are placed in the directory WEB-INF/classes and that the web server is restarted. Otherwise they will not be found.

1.2.20 Person Involvements

In this screen you can enter and edit person involvements.

Here person involvements can be added. This is done per person. Per person you can indicate who this is and who this person is in relation to another person. You can set the involvement role. Subsequently it is optionally possible to enter other information. Here you can think of a limit, or whether the person is added implicitly or not and finally a explanation. In the end the starting moment and the end are inidicated of the person involvement.

<picture here>

The meaning of the entry fields is:

Person (From)	The person 97 to be added to the person involvement 97.
Person (To)	The person 97 to w hom the added person is related to in terms of involvement role 97.
Involvement Role	The type of role that the person 97 has.
Limit	The limit of the person 97.

Added Implicitly	This box needs to be checked if the addition is implicit.
Explanation	A possible explanation with the person involvement 97.
Start Moment	The date on which the person involvement 97 starts.
End	The date on which the person involvement 97 ends.

1.3 Invantive Estate for Outlook

This chapter contains information about the functions which are normally included in the standard Invantive Estate Microsoft Outlook Add-In. The Invantive Estate for Outlook enables the possibility to Invantive Estate work without the user interface 7 being open. Via the Invantive Estate for Outlook user interface you can access functions which are necessary to process daily operational events of a project. Via the web user interface 7 you also have access to functions with which you can enhance structural settings for a project.

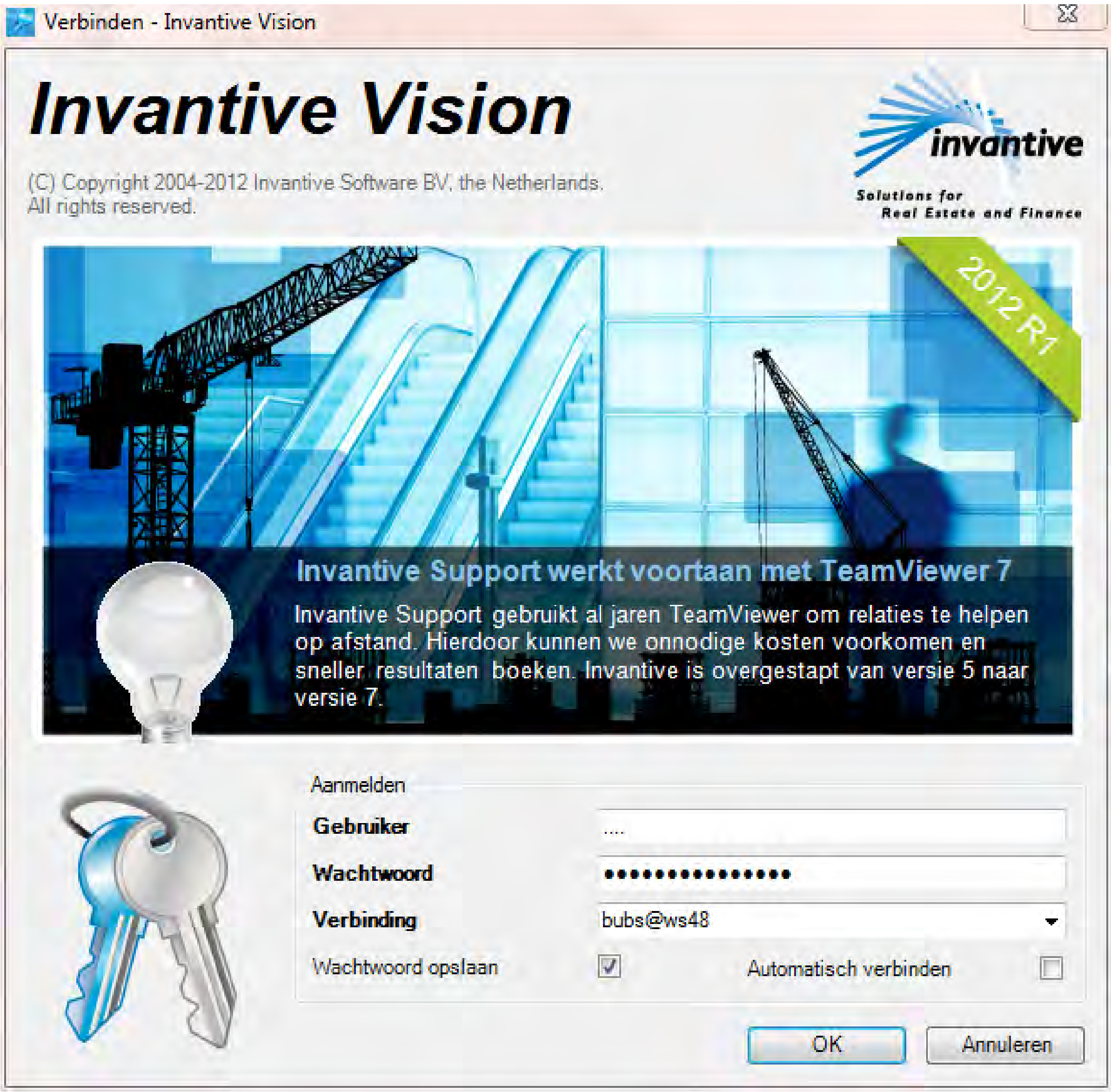
1.3.1 User Interface

This chapter shows you how the basic functions fromInvantive Estate for Outlook work. Here you learn to use the search function, how to navigate through the menu, how to change, add or remove data, how to add or remove documents and how to export data for further processing in Microsoft Excel or Adobe Acrobat.

1.3.1.1 Start up and Login

Complete the following steps in order Invantive Estate for Outlook to start:

- Open the ‘Start’ menu left under in your screen.
- Then go the meny ‘Programs’ and ioen Microsoft Outlook.
- Microsoft Outlook will be opened and if Invantive Estate for Outlook is installed, the login screen below will appear.



Verbinden - Invantive Vision

Invantive Vision

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Invantive Support werkt voortaan met TeamViewer 7

Invantive Support gebruikt al jaren TeamViewer om relaties te helpen op afstand. Hierdoor kunnen we onnodige kosten voorkomen en sneller resultaten boeken. Invantive is overgestapt van versie 5 naar versie 7.

Aanmelden

Gebruiker ....

Wachtwoord •••••••••••••••

Verbinding bubs@ws48

Wachtwoord opslaan ☑ Automatisch verbinden ☐

- To login you need to fill in the required input fields. Required input fields are Invantive Estate for Outlook **shown** in bold.

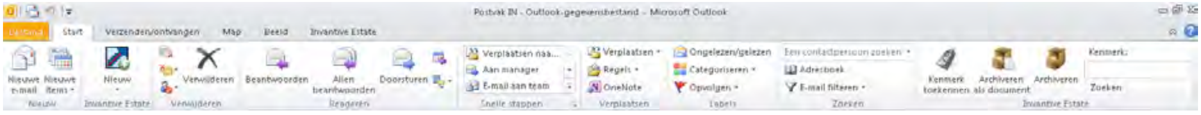
Warning! Both username and password are capital sensitive. This means you must pay attention to using the right capital letters in your username and password. Without capital letter at the right places you will not get access to the program.

The meaning of the entry fields is:

Username	Your name as recorded in the user administration.
Password	Your password.
Connection	The connection which is used for Invantive Estate for Outlook.
Save password	Your password is Invantive Estate for Outlook remembered and already entered next time you login, if the box is checked.
Connect automatically	The next time Invantive Estate for Outlook will be started automatically, without having to login, if this box is checked.

- After you fill in the data press ‘OK’. Microsoft Outlook will now be opened and the tab page

Invantive Estate in the ribbon of Microsoft Outlook will indicate that the Invantive Estate for Outlook is installed.


Postvak IN - Outlook-gegevensbestand - Microsoft Outlook
Bestand
Start
Verzenden/ontvangen
Map
Beeld
Invantive Estate
Nieuwe e-mail
Nieuwe items
Nieuw
Nieuw
Invantive Estate
Verwijderen
Verwijderen
Beantwoorden
Allen beantwoorden
Doorsturen
Reageren
Verplaatsen naa...
Aan manager
E-mail aan team
Snelle stappen
Verplaatsen
Regels
OneNote
Verplaatsen
Ongelezen/gelezen
Categoriseren
Opvolgen
Labels
Een contactpersoon zoeken
Adresboek
E-mail filteren
Zoeken
Kenmerk toekennen
Archiveren als document
Archiveren
Kenmerk:
Zoeken
Invantive Estate

The commands and functions of the Invantive Estate for Outlook are integrated in the Microsoft Outlook interface and are context-dependent.

In the navigation panel, which is normally on the left side of Microsoft Outlook, under the option ‘Mail’.

- In the ribbon under the tab ‘File‘, under the option ‘Insert Applications‘.
- In het lint onder het tabblad ‘Start’, Bij het creëren van een nieuwe e-mail, het doorsturen van een bestaande e-mail of het beantwoorden van een e-mail.
- In the ribbon under the tab ‘Start’, under the component Invantive Estate;
- In the ribbon under the tab Invantive Estate. It is a tab with orders and functions only from Invantive Estate for Outlook;

In the navigation panel under the option ‘Calendar‘

- In the ribbon under the tab ‘Start’,At the creëeating of a new appointment, opening an appointment, or the answering of an e-mail.
- In the ribbon under the tab ‘Start’, under the component Invantive Estate;
- In the ribbon under the tab Invantive Estate. It's a tab with orders and functions regarding Invantive Estate for Outlook;

- Update Contacts
- Call
- Fast Open...
- Explorer
- Settings
- About Invantive Estate Outlook Add-in
- Query program

These menu parts are described in the next chapters.

1.3.1.2 Microsoft Outlook Interface

The Invantive Estate for Outlook is integrated in Microsoft Outlook interface. We will give a short description of the components of the Microsoft Outlook interface.

The ribbon

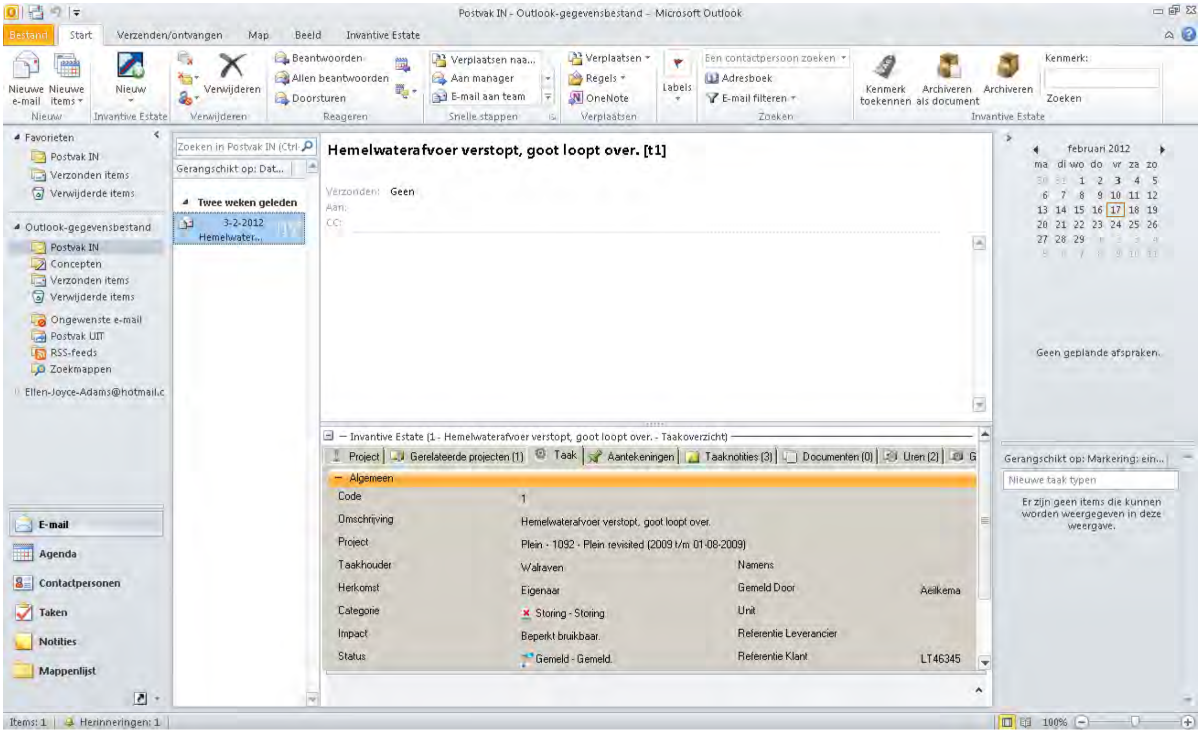
In the ribbon, in the top of the screen, orders and functions are grouped in the tab pages: ‘File‘; ‘Start‘; ‘Send/Receive‘ and ‘View‘. If the Invantive Estate for Outlook is installed an extra tab page ‘Invantive Estate’ will appear. The screen above shows this extra tab page. The tasks and functions in the ribbon change if you have another tab selected or if you select another application in the navigation panel.

The navigation panel

The navigation panel can be found on the left side of the screen. The Microsoft Outlook applications can be found under the navigation panel. On the screen below, this are the applications: Mail; Calendar; Contacts; Tasks and Notes. At the top in the navigation panel the maps and data are shown which are relevant on the selected application.

The task panel

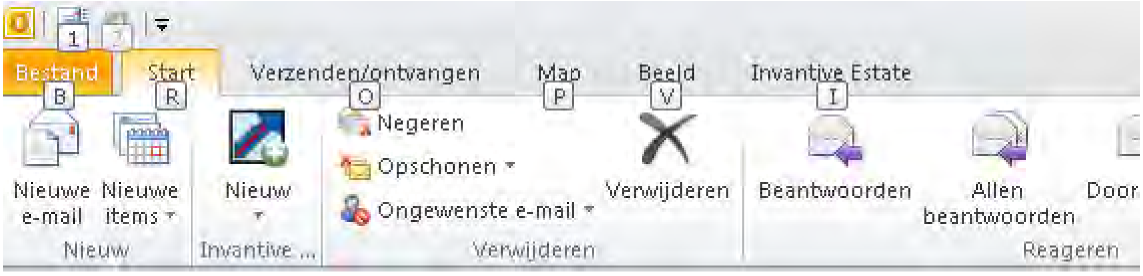
The task panel can be found on the right side of the screen. In the top of the task panel a calender is shown in which tasks and appointments are shown. Below in the task panel you can add a new task.


Postvak IN - Outlook-gegevensbestand - Microsoft Outlook
Bestand
Start
Verzenden/ontvangen
Map
Beeld
Invantive Estate
Nieuwe e-mail
Nieuwe items
Nieuw
Nieuw
Invantive Estate
Verwijderen
Verwijderen
Beantwoorden
Allen beantwoorden
Doorsturen
Reageren
Verplaatsen naa...
Aan manager
E-mail aan team
Snelle stappen
Verplaatsen
Regels
OneNote
Verplaatsen
Labels
Een contactpersoon zoeken
Adresboek
E-mail filteren
Zoeken
Kenmerk toekennen
Archiveren als document
Archiveren
Invantive Estate
Kenmerk:
Zoeken
Favorieten
Postvak IN
Verzonden items
Verwijderde items
Outlook-gegevensbestand
Postvak IN
Concepten
Verzonden items
Verwijderde items
Ongewenste e-mail
Postvak UIT
RSS-feeds
Zoekmappen
Ellen-Joyce-Adams@hotmail.c
E-mail
Agenda
Contactpersonen
Taken
Notities
Mappenlijst
Zoeken in Postvak IN (Ctrl-
Gerangschikt op: Dat...
Twee weken geleden
3-2-2012
Hemelwater...
Hemelwaterafvoer verstopt, goot loopt over. [t1]
Verzonden:
Geen
Aan:
CC:
februari 2012
ma di wo do vr za zo
30 31 1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 1 2 3 4
5 6 7 8 9 10 11
Geen geplande afspraken.
Gerangschikt op: Markering: ein...
Nieuwe taak typen
Er zijn geen items die kunnen worden weergegeven in deze weergave.
Invantive Estate (1 - Hemelwaterafvoer verstopt, goot loopt over. - Taakoverzicht)
Project
Gerelateerde projecten (1)
Taak
Aantekeningen
Taaknotities (3)
Documenten (0)
Uren (2)
G
Algemeen
Items: 1
Herinneringen: 1
100%

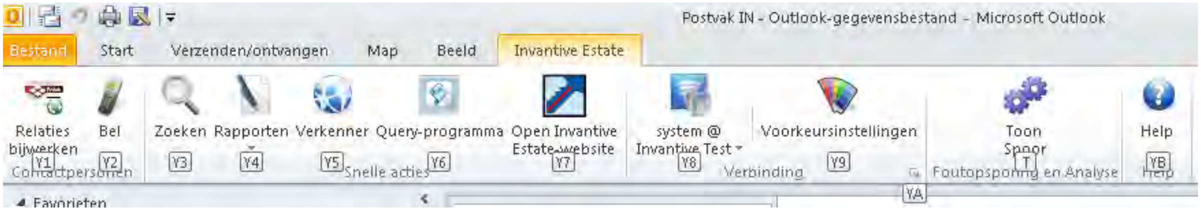
Code	1		
Omschrijving	Hemelwaterafvoer verstopt, goot loopt over.		
Project	Plein - 1092 - Plein revisited (2009 t/m 01-08-2009)		
Taakhouder	Walraven	Namens	
Herkomst	Eigenaar	Gemeld Door	Aeilkema
Categorie	Storing - Storing	Unit	
Impact	Beperkt bruikbaar.	Referentie Leverancier	
Status	Gemeld - Gemeld.	Referentie Klant	LT46345

Navigation

To navigate in the menu you can use your mouse of keyboard. In Microsoft Outlook there are many shortcuts available. A lot of shortcuts are a combination of the ‘Ctrl‘-key with a number or letter. By default there are hundreds of combinations present in Microsoft Outlook. if these combinations are unfamiliar for you, you can push the ‘Alt‘ key. The tab pages in the ribbon receive labels, you can select these by pressing the label. The position in the menu where you are is highlighted in orange. In the image below this is the menu option ‘Start’.


Bestand B
Start R
Verzenden/ontvangen O
Map P
Beeld V
Invantive Estate I
Nieuwe e-mail
Nieuwe items
Nieuw
Nieuw
Invantive ...
Negeren
Opschonen
Ongewenste e-mail
Verwijderen
Verwijderen
Beantwoorden
Allen beantwoorden
Door
Reageren

After you press the label ‘I’, the functions of the tab page ‘Invantive Estate’ will appear.


Postvak IN - Outlook-gegevensbestand - Microsoft Outlook
Bestand
Start
Verzenden/ontvangen
Map
Beeld
Invantive Estate
Relaties bijwerken Y1
Bel Y2
Contactpersonen
Zoeken Y3
Rapporten Y4
Verkenner Y5
Query-programma Y6
Snelle acties
Open Invantive Estate-website Y7
system @ Invantive Test Y8
Verbinding
Voorkeursinstellingen Y9
YA
Toon Spoor T
Foutopsporing en Analyse
Help YB
Help
Favorieten

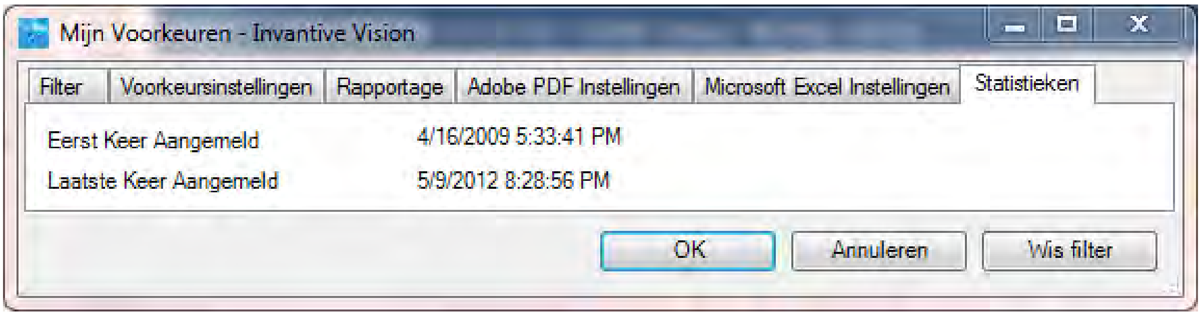
The functioning of the Invantive Estate for Outlook using the keyboard works the same way as the functioning of the other functions in Microsoft Outlook. By entering the right label again, you can select whatever function you desire.

1.3.1.3 Screens

In this chapter, the parts you will run into of Invantive Estate for Outlook are described.

Title

The title of a screen in Invantive Estate for Outlook firstly shows the selected menu option and then the name of the product. As separating character a horizontal linking bar is used. The title of the screen below indicates that the chosen menu option is ‘My Preferences‘ and that the productname is ‘Invantive Vision‘.


Mijn Voorkeuren - Invantive Vision
Filter
Voorkeursinstellingen
Rapportage
Adobe PDF Instellingen
Microsoft Excel Instellingen
Statistieken
OK
Annuleren
Wis filter

Eerst Keer Aangemeld 4/16/2009 5:33:41 PM
Laatste Keer Aangemeld 5/9/2012 8:28:56 PM

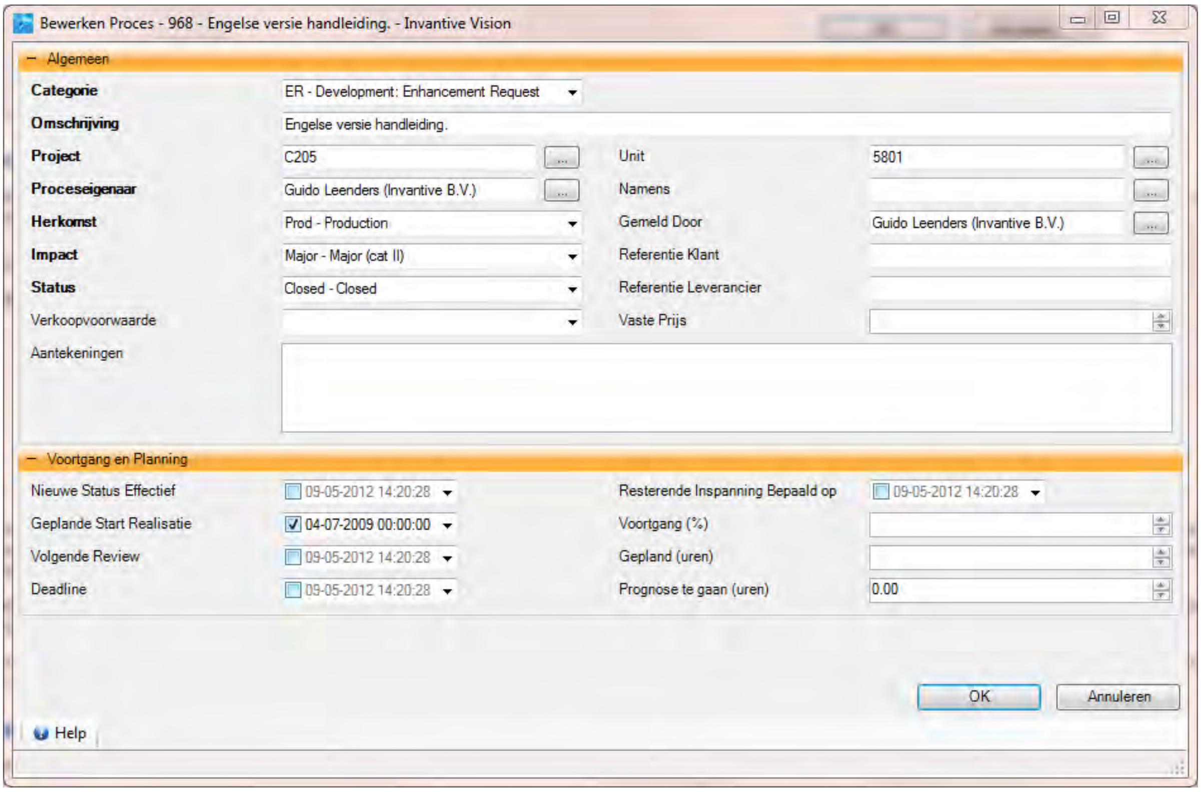
Create or Change

In this paragraph the types of inputfields you can distinguish and how you can add or delete data is described. Important tools to be used in this process are Forms 22.

Input Types

This section describes the field types you may encounter when entering or modifying data and what kind of data you can enter in the different field types.

As example we take the screen ‘Edit Process‘.



Bewerken Proces - 968 - Engelse versie handleiding. - Invantive Vision

Algemeen

Categorie	ER - Development: Enhancement Request		
Omschrijving	Engelse versie handleiding.		
Project	C205	Unit	5801
Proceseigenaar	Guido Leenders (Invantive B.V.)	Namens	
Herkomst	Prod - Production	Gemeld Door	Guido Leenders (Invantive B.V.)
Impact	Major - Major (cat II)	Referentie Klant	
Status	Closed - Closed	Referentie Leverancier	
Verkoopvoorwaarde		Vaste Prijs	
Aantekeningen			

Voortgang en Planning

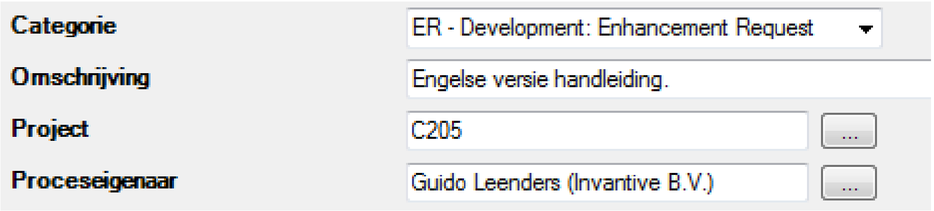
Nieuwe Status Effectief	☐ 09-05-2012 14:20:28	Resterende Inspanning Bepaald op	☐ 09-05-2012 14:20:28
Geplande Start Realisatie	☑ 04-07-2009 00:00:00	Voortgang (%)	
Volgende Review	☐ 09-05-2012 14:20:28	Gepland (uren)	
Deadline	☐ 09-05-2012 14:20:28	Prognose te gaan (uren)	0.00

Entry Fields

An example of an entry field is the white field next to ‘Description‘. In a field like this you can enter a ‘free text’. This means you can choose - within certain boundaries - what you fill in. In the example of ‘Description‘ you can for example enter a short description of the subject of the process.

Required fields

The fields which are shown **bold** are required fields. Examples of these fields are ‘Category‘, ‘Description‘, ‘Project‘, ‘Process Owner‘, etc.



Categorie	ER - Development: Enhancement Request
Omschrijving	Engelse versie handleiding.
Project	C205
Proceseigenaar	Guido Leenders (Invantive B.V.)

Amounts

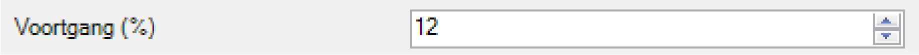
All amounts are in Euros and will be written in the European way. This means that thousands are separated by a period and that the separation of whole and decimal numbers is shown by a comma. For instance: 123.456,78. If you use an American version of other software you have to pay attention to not change the way of writing numbers. The American way of noting numbers is the exact opposite of our way, for example 123,456.78.

If you enter a number with a decimal, you need to use the comma key (‘,‘). All points are considered thousands separators and are not looked at regardless of the place of the number. An input of ‘8.5’ is therefore treated as ‘85’.

The amounts you enter are left aligned. This means these can be found on the left side of the field. If the amounts are already entered, they are automatically right aligned. If you, for example, in the screen section, where you can search, enter a number you will see that the number is left aligned.

Percentages

Further more there are fields where a certain percent is askesd (like with ‘Progress(%)‘). You do not need to enter the percentage sign here.



Voortgang (%) 12

Dates

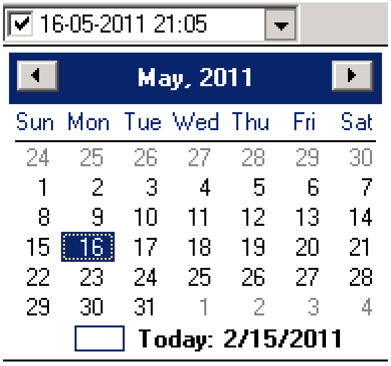
If a date is being asked (For example: ‘Date Start Realization’) you can fill this in yourself. The allowed date format is dd-mm-jjjj. The input mask prevents the input of an invalid value. An example of an invalid value is month number 22 or day number 33.

The meaning of the date format is the following:

- ‘dd’ indicates a two digit format of the day of the month from ‘01’ to ‘31’.
- ‘mm’ indicates a two digit format of the month in the year where ‘01’ stands for January, ‘02’ stands for February .. etc..
- ‘yyyy’ indicates a four digit format of the year, for example ‘2009’.

You can also click on the small square next to the input field:

A calendar appears:



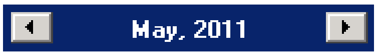
☑ 16-05-2011 21:05

May, 2011

Sun	Mon	Tue	Wed	Thu	Fri	Sat
24	25	26	27	28	29	30
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

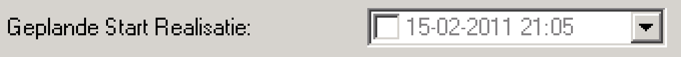
Today: 2/15/2011

Select the day by clicking on one of the numbers in the calendar. If you select ‘today’ automatically the current date will be used. The month is changeable by clicking on one of the black arrows, which can be seen on the picture below. The arrow to the right means a month forward. The arrow to the left means a month backward.



If you want more than only change the day, you have to ensure that you change the day at the end. This is because after changing the day you will come back to the menu.

After you have entered a data or selected one by using the calendar, the checkbox left in the date field is checked. This means that a data is selected. If you do not wish to use the date field, click on the checkbox left in the date field. The checkbox is then unchecked and the data in the field will turn light grey.


Geplande Start Realisatie: ☐ 15-02-2011 21:05

Times

When asked to enter a time, the following input format can be used:uu:mm.

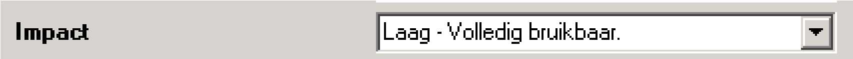
In this case the abbreviation ‘mm’ is minutes and not months as in the date format, ‘uu’ stands for hours.

Date Time Fields

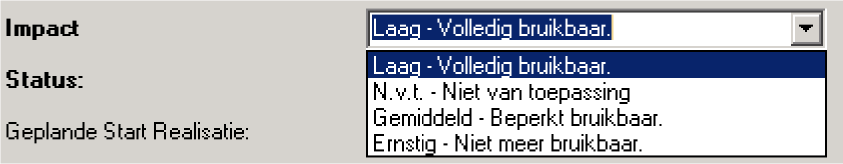
In date/time fields, first the date is entered and subsequently the time. The distinction between date and time is indicated by a space. The above given input formats show the way the date and time can be entered.

Drop Boxes

With drop boxes only valid choices can be made. A drop box works as follows: the field next to ‘Impact’ in the image below for example, is a drop box. As you can see something has already been entered: ‘Low - Completely usable’.


Impact Laag - Volledig bruikbaar.

You can change the content of this drop box by clicking on the little square. This opens the drop box and it will get the shape of the following image:


Impact Laag - Volledig bruikbaar.

Status:

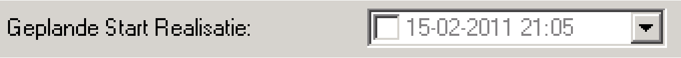
Geplande Start Realisatie:

Laag - Volledig bruikbaar.
N.v.t. - Niet van toepassing
Gemiddeld - Beperkt bruikbaar.
Ernstig - Niet meer bruikbaar.

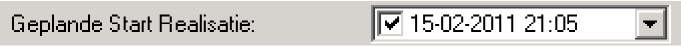
Now you can choose from four values: ‘Low - Completely usable’, ‘N.A. - Not applicable’, ‘Average - Limited use’ and ‘Severe - No longer usable’. To choose you click on one of the possibilities. The drop box closes itself and your choice is recorded.

Check boxes

A final way to enter data in the screens is via check boxes. This is used when there are only two options: yes or no. If you check the box, you choose ‘yes’ and vice versa. An example of a check mark you can see in the image below:


Geplande Start Realisatie: ☐ 15-02-2011 21:05

The check is done by clicking on the white square or in the accompanying text or by selecting the white square with the cursor and then pressing the space bar. The field will look as follow:


Geplande Start Realisatie: ☑ 15-02-2011 21:05

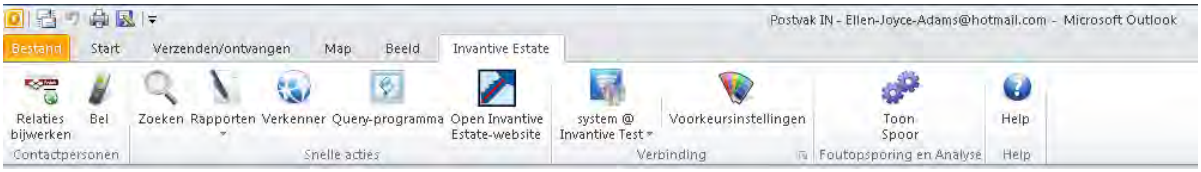
Forms

The data in the screens of Invantive Estate is shown in forms. A form is a cohesive and structured group of data. The use of forms makes it clear and easy to enter or edit data in the database.

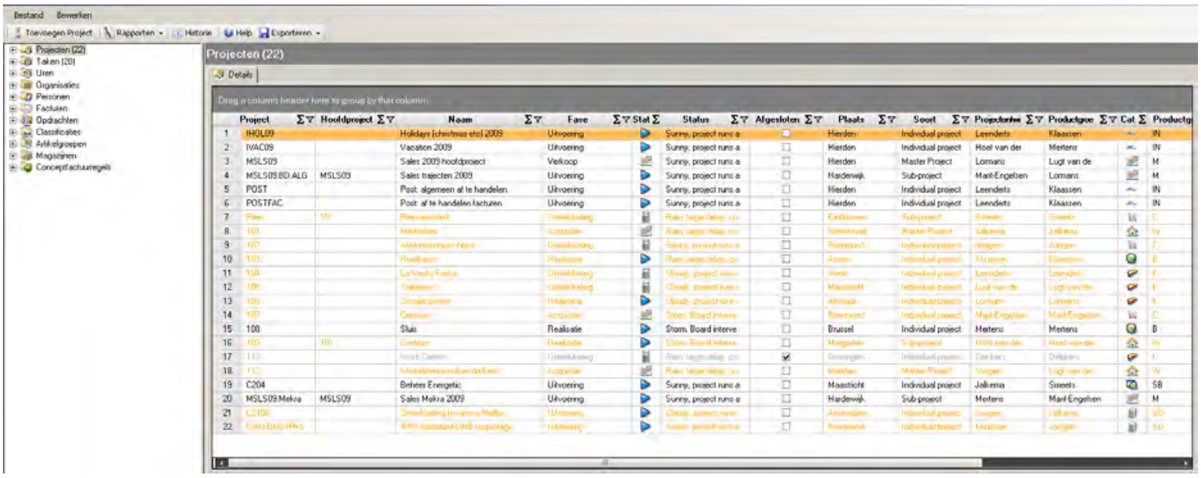
In some screens, the data is shown in multiple forms. At the top of the screen the master form is shown with the detail forms below. The data in the detail forms are linked to the data in the master form. The use of master- and detail forms in one screen prevents that you have to open multiple screens when you need to change related data.

Add New Data

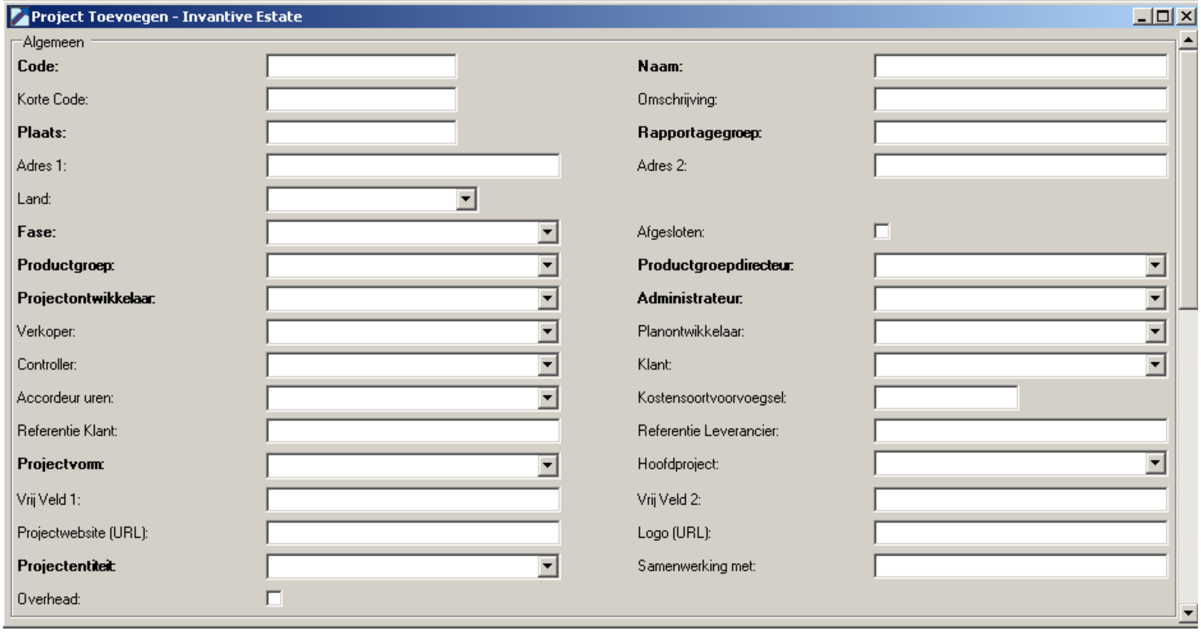
Open the screen where you would like to add new data. This is possible using the option ‘Explorer‘. This function can be found in the ribbon under the tab page ‘Invantive Estate‘.


Postvak IN - Ellen-Joyce-Adams@hotmail.com - Microsoft Outlook
Bestand
Start
Verzenden/ontvangen
Map
Beeld
Invantive Estate
Relaties bijwerken
Bel
Zoeken
Rapporten
Verkenner
Query-programma
Open Invantive Estate-website
system @ Invantive Test
Voorkeursinstellingen
Toon Spoor
Help
Contactpersonen
Snelle acties
Verbinding
Foutopsporing en Analyse
Help

Select ‘Explorer‘, the following screen is shown.


Bestand
Bewerken
Toevoegen Project
Rapporten
Historie
Help
Exporteren
Projecten (22)
Taken (20)
Uren
Organisaties
Personen
Facturen
Opdrachten
Classificaties
Artikelgroepen
Magazijnen
Conceptfactuurregels
Projecten (22)
Details
Drag a column header here to group by that column
Project
Hoofdproject
Naam
Fase
Stat
Status
Afgesloten
Plaats
Soort
Projectonlei
Productgroe
Cat

Suppose you want to add a new project. Select the option ‘Add Project‘ in the top left of the screen. The following screen appears.

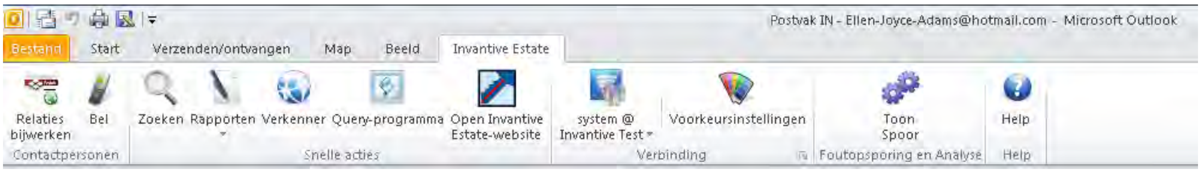

Project Toevoegen - Invantive Estate
Algemeen

Code:		**Naam:**	
Korte Code:		Omschrijving:	
Plaats:		**Rapportagegroep:**	
Adres 1:		Adres 2:	
Land:			
Fase:		Afgesloten:	☐
Productgroep:		**Productgroepdirecteur:**	
Projectontwikkelaar:		**Administrateur:**	
Verkoper:		Planontwikkelaar:	
Controller:		Klant:	
Accordeur uren:		Kostensoortvoorvoegsel:	
Referentie Klant:		Referentie Leverancier:	
Projectvorm:		Hoofdproject:	
Vrij Veld 1:		Vrij Veld 2:	
Projectwebsite (URL):		Logo (URL):	
Projectentiteit:		Samenwerking met:	
Overhead:	☐		

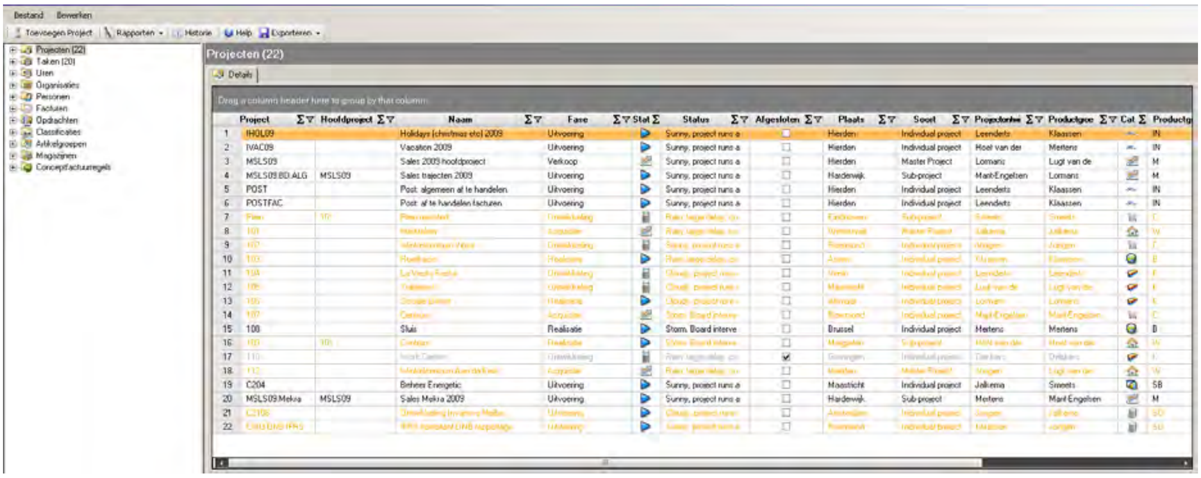
Fill the desired data in the Form 374. By using the scroll bar on the right of the screen, you can scroll to the Form 374 bottom. Then select ‘OK’. The data is now saved. If you don't want to save the data, select ‘Cancel‘.

Create or Change Data

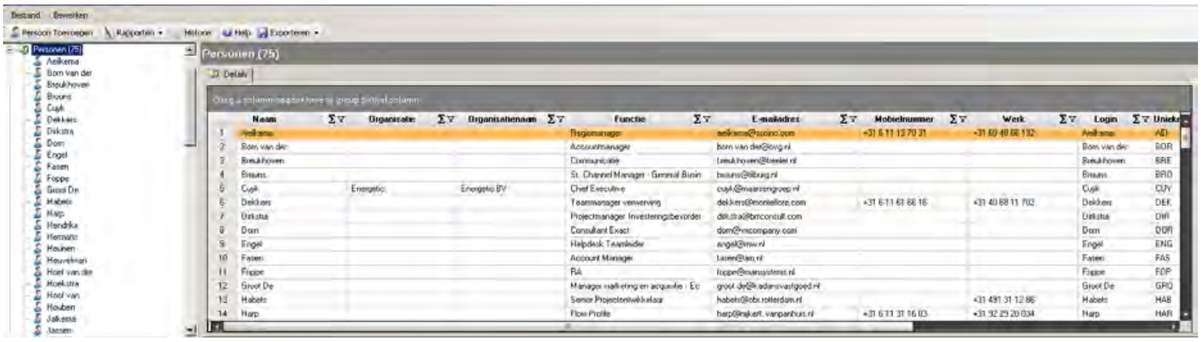
Open the screen where you would like to create or change data. This is possible using the option ‘Explorer‘. This function can be found in the ribbon under the tab page ‘Invantive Estate‘.


Postvak IN - Ellen-Joyce-Adams@hotmail.com - Microsoft Outlook
Bestand
Start
Verzenden/ontvangen
Map
Beeld
Invantive Estate
Relaties bijwerken
Bel
Contactpersonen
Zoeken
Rapporten
Verkenner
Query-programma
Open Invantive Estate-website
Snelle acties
system @ Invantive Test
Voorkeursinstellingen
Verbinding
Toon Spoor
Foutopsporing en Analyse
Help
Help

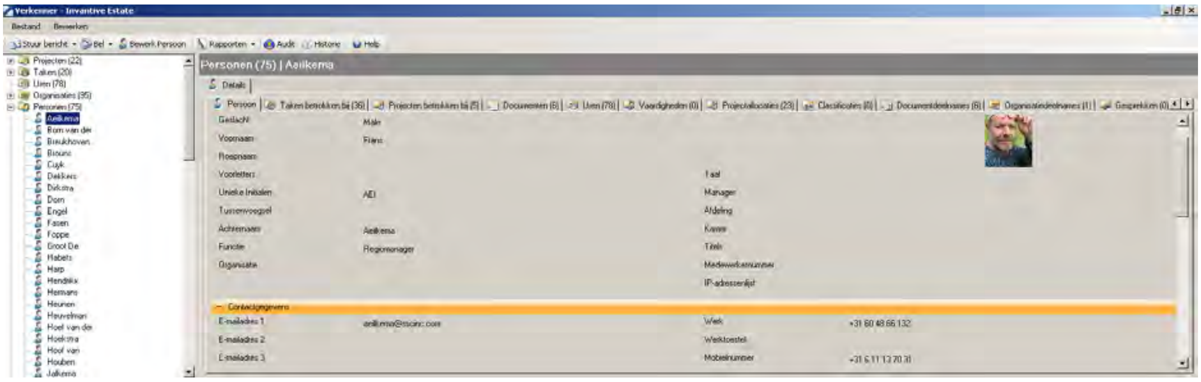
Select ‘Explorer‘, the following screen is shown.


Bestand
Bewerken
Toevoegen Project
Rapporten
Historie
Help
Exporteren
Projecten (22)
Details

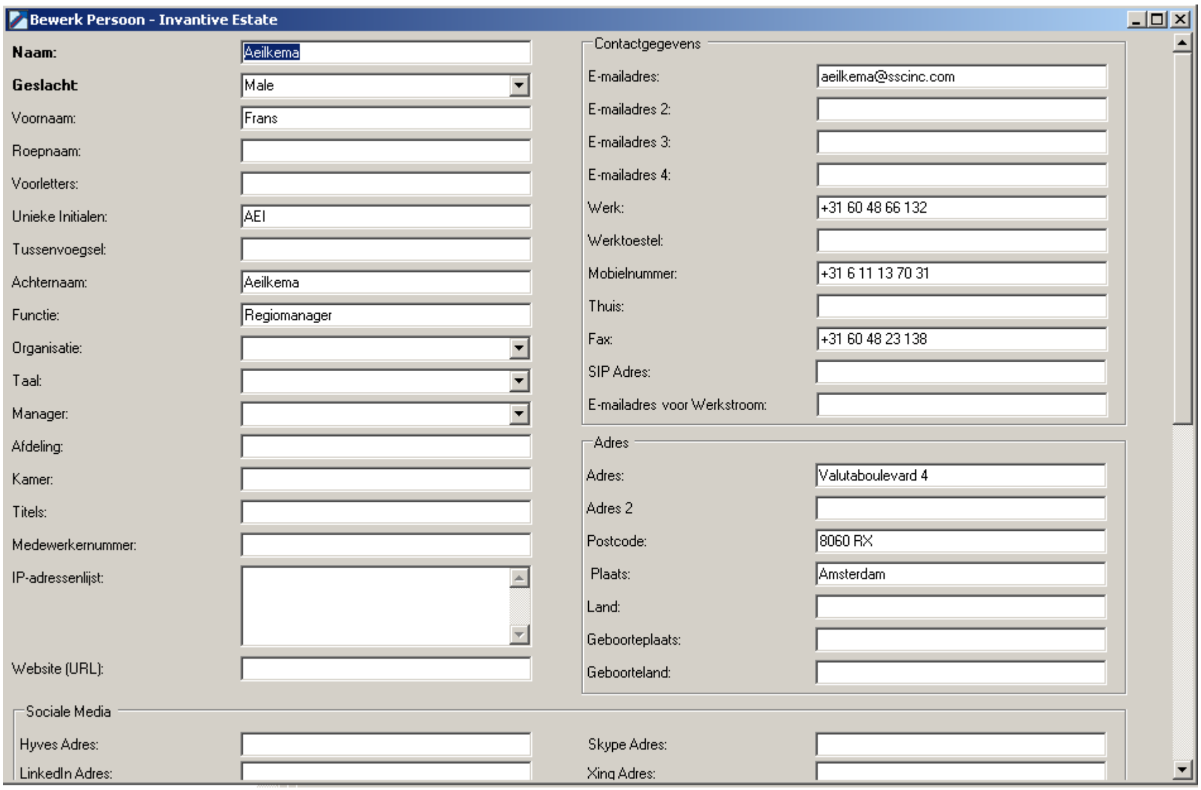
Suppose we want to change data from a person. Select the plus sign for ‘Persons‘. The folder with persons will open. This is shown in the screen below.


Bestand
Bewerken
Persoon Toevoegen
Rapporten
Historie
Help
Exporteren
Personen (75)
Details

Using the mouse select the person who you want to edit the data from, in this case ‘Aeilkema‘. All relevant data concerning the person ‘Aeilkema‘ is now shown in different tab pages. This is shown in the screen below.


Verkenner - Invantive Estate
Bestand
Bewerken
Bewerk Persoon
Rapporten
Historie
Help
Personen (75) | Aeilkema
Details

In the menu above, there will appear an option ‘Edit Person‘. Select this option. The following screen appears.



Bewerk Persoon - Invantive Estate

Naam: Aeilkema
Geslacht: Male
Voornaam: Frans
Roepnaam:
Voorletters:
Unieke Initialen: AEI
Tussenvoegsel:
Achternaam: Aeilkema
Functie: Regiomanager
Organisatie:
Taal:
Manager:
Afdeling:
Kamer:
Titels:
Medewerkernummer:
IP-adressenlijst:
Website (URL):

Contactgegevens
E-mailadres: aeilkema@sscinc.com
E-mailadres 2:
E-mailadres 3:
E-mailadres 4:
Werk: +31 60 48 66 132
Werktoestel:
Mobielnummer: +31 6 11 13 70 31
Thuis:
Fax: +31 60 48 23 138
SIP Adres:
E-mailadres voor Werkstroom:

Adres
Adres: Valutaboulevard 4
Adres 2
Postcode: 8060 RX
Plaats: Amsterdam
Land:
Geboorteplaats:
Geboorteland:

Sociale Media
Hyves Adres:
Skype Adres:
LinkedIn Adres:
Xing Adres:

Change the desired data in the Form 374 and then move the 22 Form down using the scroll bar on the right of the screen and select ‘OK‘. The data is now saved. If you don't want to save the data, select ‘Cancel‘.

If it is necessary to delete data, you can do this by searching the desired information, for example using the Explorer and subsequently selecting the option ‘Edit‘. Then select the field of data you want to delete and delete the data with the ‘delete‘ key. After you have deleted the data select ‘OK’. You can only delete data if they are not used anywhere else.

1.3.2 Invantive Estate

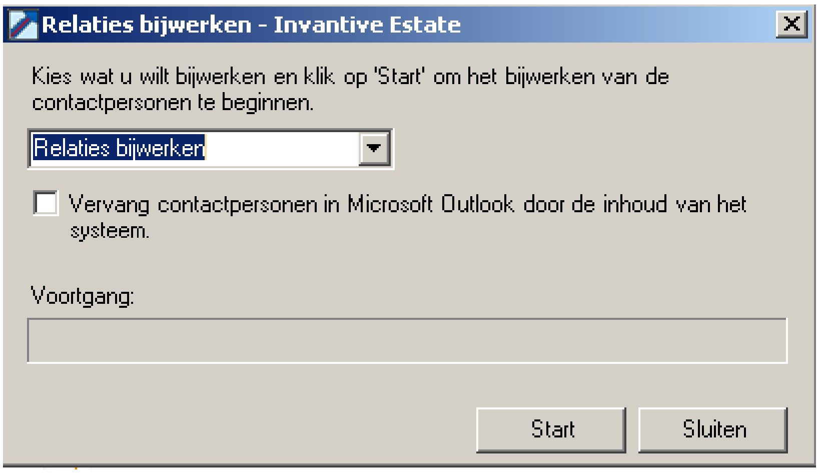
This chapter contains the function which can be found in the Microsoft Outlook ribbon under the tab page Invantive Estate.

1.3.2.1 Contacts

This chapter describes the functions that are included in the function group Contact Persons.

Update Relationships

Select the menu option Update Relationships to update your contacts in Microsoft Outlook with the data in the persons and organization administration in Invantive Estate. The updating of the contacts works optimally if the screen 'Contacts' is **not** open in Microsoft Outlook. The next window is opened when selecting the button 'Update Relationships'.



Relaties bijwerken - Invantive Estate

Kies wat u wilt bijwerken en klik op 'Start' om het bijwerken van de contactpersonen te beginnen.

Relaties bijwerken

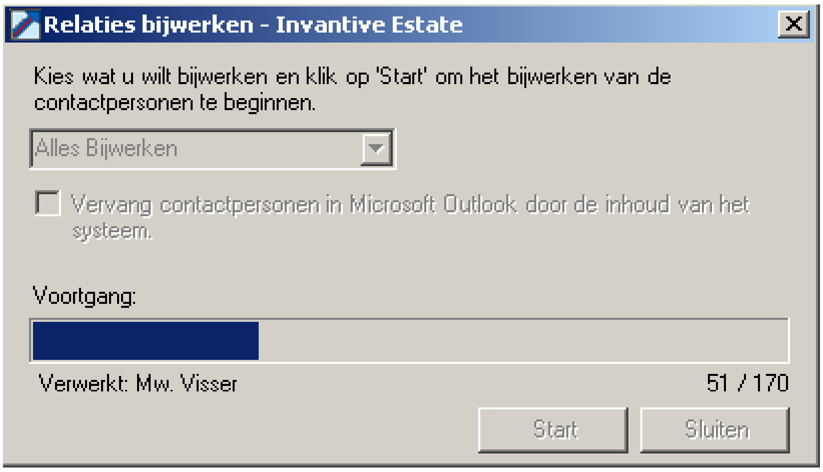
☐ Vervang contactpersonen in Microsoft Outlook door de inhoud van het systeem.

Voortgang:

The meaning of the entry fields is:

List of choices	The list of choices • Update all: this option updates your existing contacts in Microsoft Outlook and add contact when new contacts were registered in the CRM administration of Invantive Estate. • Update contacts: this option updates existing contacts in the existing contacts of Microsoft Outlook with the modified information of persons and organizations in Invantive Estate. • Add Contacts: this option adds new contacts in the Microsoft Outlook from the CRM system of Invantive Estate. In the synchronization of contacts a maximum of thousand contacts are transferred based on the intensity of use.
Checkbox 'Replace contacts ...'	If a contact was synchronized before out of Invantive Estate, then, if the box is not checked during a new synchronization Invantive Estate, these items will not be changed. Invantive Estate will only add new contacts in that case. If the box is checked then all changes will be overwritten by the possibly new values from Vision/Estate.

After you have made the choice to update your relationships, you select start. The progress of the process are indicated with a blue statusbar. This is shown in the image below.



Relaties bijwerken - Invantive Estate

Kies wat u wilt bijwerken en klik op 'Start' om het bijwerken van de contactpersonen te beginnen.

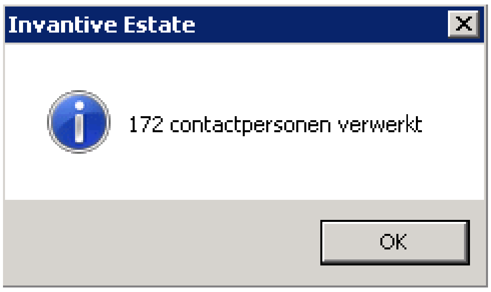
Alles Bijwerken

☐ Vervang contactpersonen in Microsoft Outlook door de inhoud van het systeem.

Voortgang:

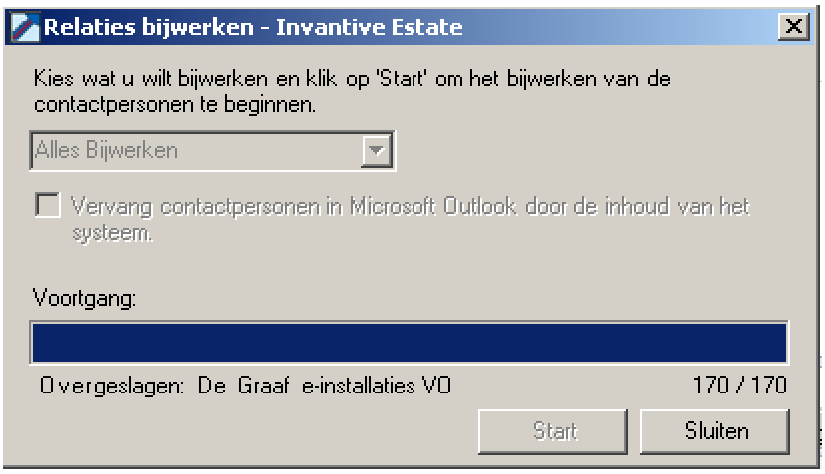
Verwerkt: Mw. Visser 51 / 170

After the process is completed a notification will appear that indicated how many contacts were processed.


Invantive Estate
OK

172 contactpersonen verwerkt

Select OK. Go back to the previous window and you can then close the process update relationships by selecting ‘Close’. This is shown in the image below.


Relaties bijwerken - Invantive Estate
Start
Sluiten

Kies wat u wilt bijwerken en klik op 'Start' om het bijwerken van de contactpersonen te beginnen.

Alles Bijwerken

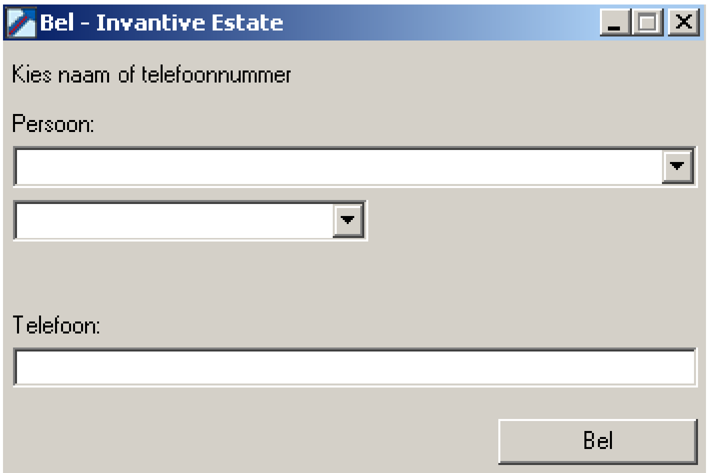
☐ Vervang contactpersonen in Microsoft Outlook door de inhoud van het systeem.

Voortgang:

Overgeslagen: De Graaf e-installaties VO 170 / 170

Call

Via the menu option ‘Call’ you can easily call your contacts if Invantive Estate is connected to a PBX. After you have selected Call the following screen will open.


Bel - Invantive Estate
Kies naam of telefoonnummer
Persoon:
Telefoon:
Bel

Using the top list box you can select the person or organization you would like to call. If the person or organization in Invantive Estate has multiple phone numbers registered, you can choose the desired phone number via the second list box without title.

The field ‘Phone’ displays the number that will be dialed when you select the button 'Call'.

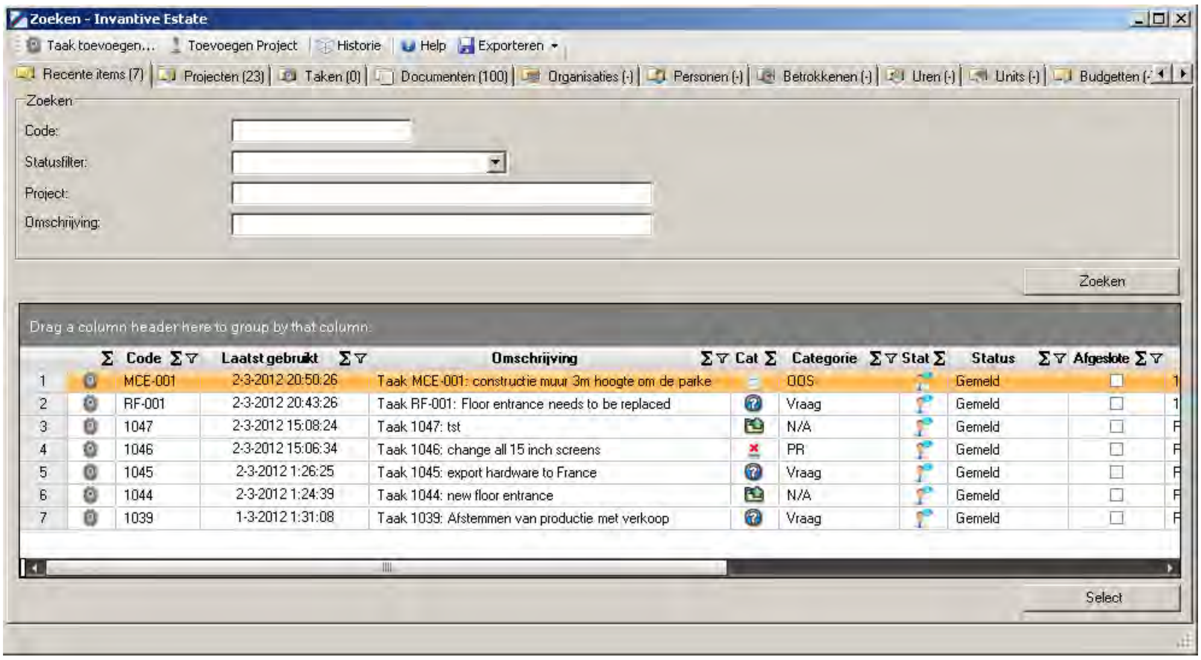
1.3.2.2 Snelle Acties

This chapter describes the functions which are in the function group Quick Actions.

Search

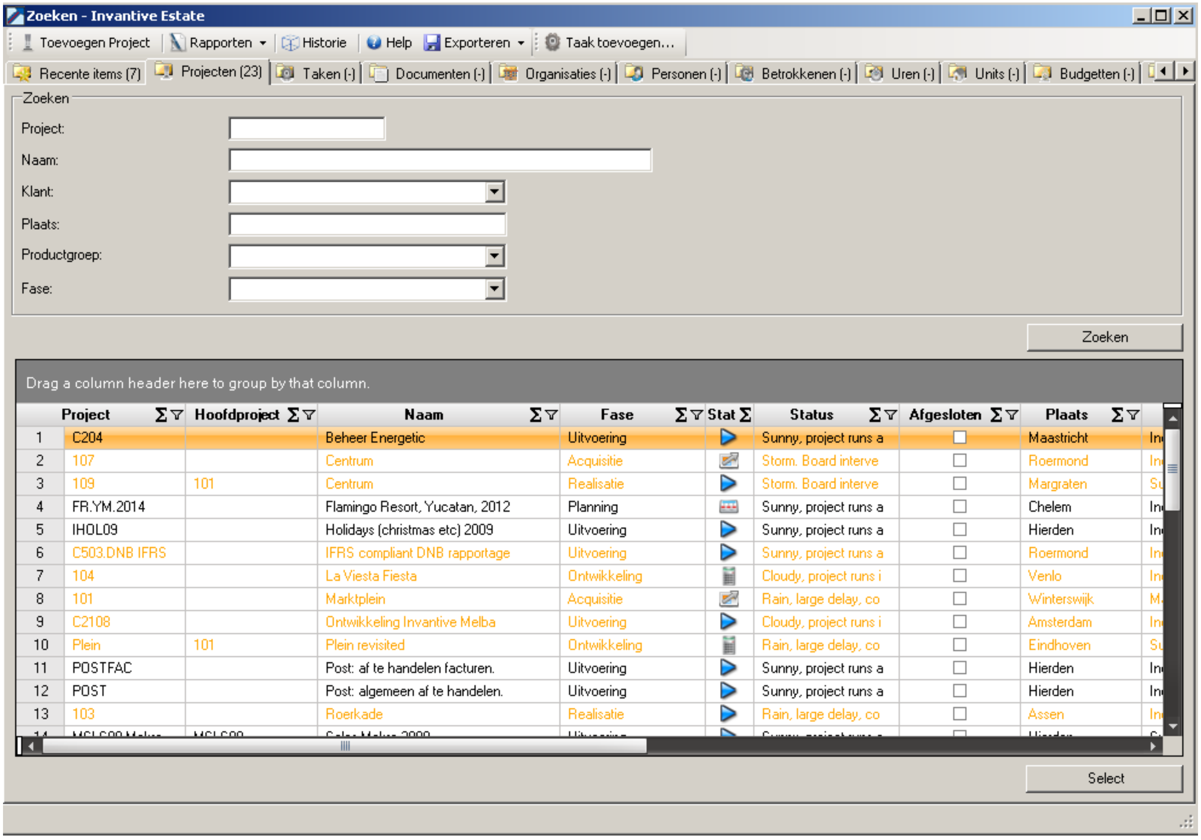
The function Search offers you the possibility to easily search for project items and quickly carry out changes in the project administration of Invantive Estate.

Select the menu option Search to find project data. The following screen is opened.


Zoeken - Invantive Estate
Taak toevoegen... Toevoegen Project Historie Help Exporteren
Recente items (7) Projecten (23) Taken (0) Documenten (100) Organisaties (-) Personen (-) Betrokkenen (-) Uren (-) Units (-) Budgetten (-
Zoeken
Code:
Statusfilter:
Project:
Omschrijving:
Zoeken
Drag a column header here to group by that column.
Select

	Code	Laatst gebruikt	Omschrijving	Cat	Categorie	Stat	Status	Afgeslote
1	MCE-001	2-3-2012 20:50:26	Taak MCE-001: constructie muur 3m hoogte om de parke		OOS		Gemeld	☐
2	RF-001	2-3-2012 20:43:26	Taak RF-001: Floor entrance needs to be replaced		Vraag		Gemeld	☐
3	1047	2-3-2012 15:08:24	Taak 1047: tst		N/A		Gemeld	☐
4	1046	2-3-2012 15:06:34	Taak 1046: change all 15 inch screens		PR		Gemeld	☐
5	1045	2-3-2012 1:26:25	Taak 1045: export hardware to France		Vraag		Gemeld	☐
6	1044	2-3-2012 1:24:39	Taak 1044: new floor entrance		N/A		Gemeld	☐
7	1039	1-3-2012 1:31:08	Taak 1039: Afstemmen van productie met verkoop		Vraag		Gemeld	☐

The tab 'Recent items 387' is selected. The dats that the tab contains is described in Recent Items 387. If you want to search for other project data you need to select the tab with the desired data. To search for a project for example, select the tab 'Projects'. This is displayed in the screen below.


Zoeken - Invantive Estate
Toevoegen Project Rapporten Historie Help Exporteren Taak toevoegen...
Recente items (7) Projecten (23) Taken (-) Documenten (-) Organisaties (-) Personen (-) Betrokkenen (-) Uren (-) Units (-) Budgetten (-)
Zoeken
Project:
Naam:
Klant:
Plaats:
Productgroep:
Fase:
Zoeken
Drag a column header here to group by that column.
Select

	Project	Hoofdproject	Naam	Fase	Stat	Status	Afgesloten	Plaats
1	C204		Beheer Energetic	Uitvoering		Sunny, project runs a	☐	Maastricht
2	107		Centrum	Acquisitie		Storm. Board interve	☐	Roermond
3	109	101	Centrum	Realisatie		Storm. Board interve	☐	Margraten
4	FR.YM.2014		Flamingo Resort, Yucatan, 2012	Planning		Sunny, project runs a	☐	Chelem
5	IHOL09		Holidays (christmas etc) 2009	Uitvoering		Sunny, project runs a	☐	Hierden
6	C503.DNB IFRS		IFRS compliant DNB rapportage	Uitvoering		Sunny, project runs a	☐	Roermond
7	104		La Viesta Fiesta	Ontwikkeling		Cloudy, project runs i	☐	Venlo
8	101		Marktplein	Acquisitie		Rain, large delay, co	☐	Winterswijk
9	C2108		Ontwikkeling Invantive Melba	Uitvoering		Cloudy, project runs i	☐	Amsterdam
10	Plein	101	Plein revisited	Ontwikkeling		Rain, large delay, co	☐	Eindhoven
11	POSTFAC		Post: af te handelen facturen.	Uitvoering		Sunny, project runs a	☐	Hierden
12	POST		Post: algemeen af te handelen.	Uitvoering		Sunny, project runs a	☐	Hierden
13	103		Roerkade	Realisatie		Rain, large delay, co	☐	Assen

Up in the screens of the function Search you will find a framed element with the title ‘Search’.

To find information you need to fill in the search filter in the upper part of the frame. The search results will comply with the content of the search filter. To search on project code ‘103’ fill in the field ‘Code’ the value ‘103’ and click on ‘Search’.

Documents or texts are searched using the SQL operator ‘contains’. The SQL operator ‘contains’ checks whether the searched string is present.

The ‘%’ and ‘_’-characters have a special meaning in the search context.

The ‘%’ sign means ‘any string of characters’ and the ‘_’-sign stands for ‘exactly óne single character’. If you do not know part of the word that you want to search on, then fill in the percent sign for the part that you don't know. Every word in which the searched word appears, preceded and followed by text, will be included in the search results. For example ‘Maas% eik’ provides both ‘Maas aan de eik’ and ‘Winkel Maaseik’.

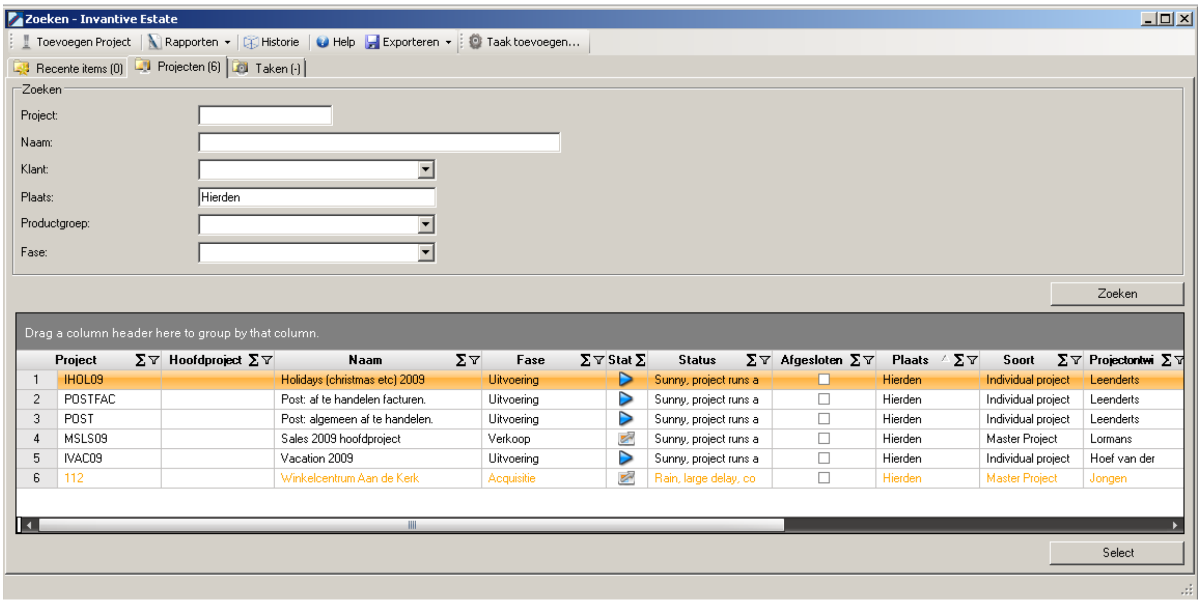
In the same way the ‘_’-character has a special meaning when used with searching and it stands for ‘any single character’. If for instance you search for ‘_aas’, you will find ‘Maas’ as well as ‘maas’.

Note that using ‘%’ and ‘_’ is only possible in text fields. They have no special function in fields where you enter an amount or date.

Warning! The search is case sensitive. ‘MAAS’ is something else than ‘Maas’ and will provide different search results.

Grid

The lower part of the screens with tabs of Invantive Estate for Outlook will show the search results which comply with the search filter.

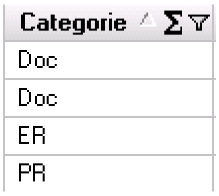


Plaats: Hierden

	Project	Hoofdproject	Naam	Fase	Stat	Status	Afgesloten	Plaats	Soort	Projectontwi
1	IHOL09		Holidays (christmas etc) 2009	Uitvoering	▶	Sunny, project runs a	☐	Hierden	Individual project	Leenderts
2	POSTFAC		Post: af te handelen facturen.	Uitvoering	▶	Sunny, project runs a	☐	Hierden	Individual project	Leenderts
3	POST		Post: algemeen af te handelen.	Uitvoering	▶	Sunny, project runs a	☐	Hierden	Individual project	Leenderts
4	MSLS09		Sales 2009 hoofdproject	Verkoop		Sunny, project runs a	☐	Hierden	Master Project	Lormans
5	IVAC09		Vacation 2009	Uitvoering	▶	Sunny, project runs a	☐	Hierden	Individual project	Hoef van der
6	112		Winkelcentrum Aan de Kerk	Acquisitie		Rain, large delay, co	☐	Hierden	Master Project	Jongen

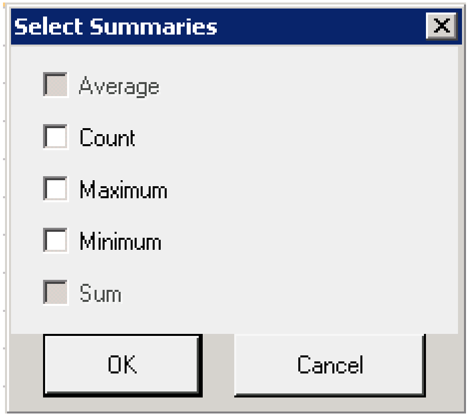
Sort

Above the search results are the column heads which you can use to sort the search results. By clicking on a column head, the selection is sorted on the values in the selected column. If you click on the column header once more, the sorting will happen in the reverse order (descending instead of ascending). An arrow after the column name indicates whether the column is sorted ascending (arrow pointing up) or descending (arrow pointing down).



Summarizing and Filtering

Behind the column name in the column header a summation sign and a filter sign are displayed. Select the summation sign. The following screen is opened.

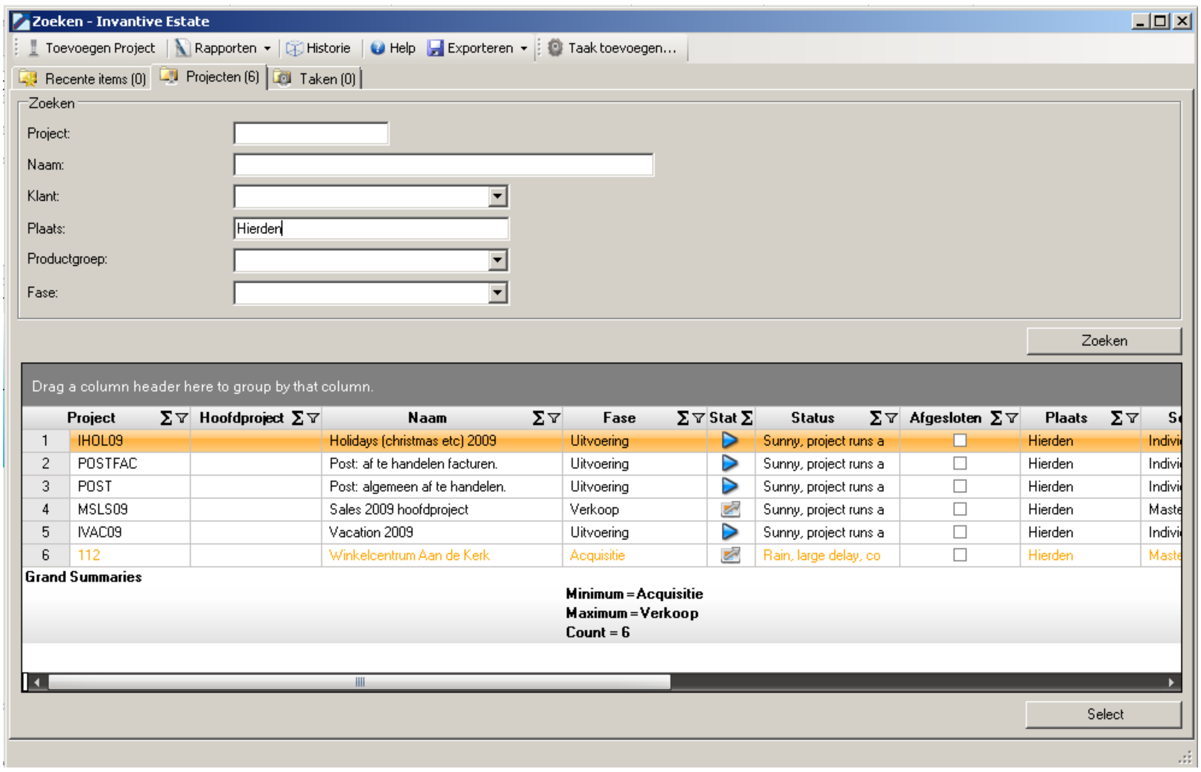


Using this screen you can calculate a number of summarizations of the column. The grey-tinted choice boxes are not available.

Meaning of the input fields:

Count	Present a count of the number of items in the column as checked.
Maximum	Show s the maximum value in the column as checked.
Minimum	Show s the minimum value in the column as checked.

After you have made your desired choice, select OK. Under the column there will now appear the by you selected summaries. This is shown in the image below.


Zoeken - Invantive Estate
Toevoegen Project
Rapporten
Historie
Help
Exporteren
Taak toevoegen...
Recente items (0)
Projecten (6)
Taken (0)
Zoeken
Zoeken
Drag a column header here to group by that column.
Select

Project:

Naam:

Klant:

Plaats: Hierden

Productgroep:

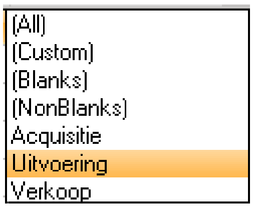
Fase:

	Project	Hoofdproject	Naam	Fase	Stat	Status	Afgesloten	Plaats	S
1	IHOL09		Holidays (christmas etc) 2009	Uitvoering	▶	Sunny, project runs a	☐	Hierden	Indivi
2	POSTFAC		Post: af te handelen facturen.	Uitvoering	▶	Sunny, project runs a	☐	Hierden	Indivi
3	POST		Post: algemeen af te handelen.	Uitvoering	▶	Sunny, project runs a	☐	Hierden	Indivi
4	MSLS09		Sales 2009 hoofdproject	Verkoop	✎	Sunny, project runs a	☐	Hierden	Maste
5	IVAC09		Vacation 2009	Uitvoering	▶	Sunny, project runs a	☐	Hierden	Indivi
6	112		Winkelcentrum Aan de Kerk	Acquisitie	✎	Rain, large delay, co	☐	Hierden	Maste

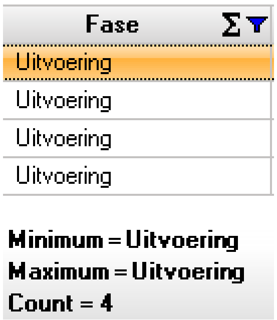
Grand Summaries

Minimum = Acquisitie
Maximum = Verkoop
Count = 6

Using the filter sign you can filter on values in the columns. Select the filter sign in the column ‘Phase’ The following screen is opened:


(All)
(Custom)
(Blanks)
(NonBlanks)
Acquisitie
Uitvoering
Verkoop

You can now select to which value you wish to filter in the column. After you have selected a value, in this case ‘Execution’, close the screen with the possible filter values. The filter sign in the column head turns blue. This allows you to see that search results are filtered on one or more values within the column. This is shown in the following image.

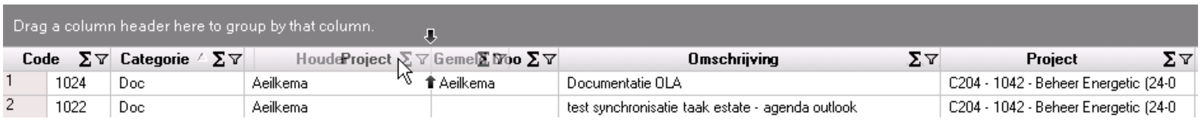


Fase
Uitvoering
Uitvoering
Uitvoering
Uitvoering

Minimum = Uitvoering
Maximum = Uitvoering
Count = 4

Moving of columns

You can easily move the columns in the search results. To do this, click the left mouse button on the column name and drag it, while you hold the mouse button to the other location. Two black arrows appear if you have dragged the column to a valid location.

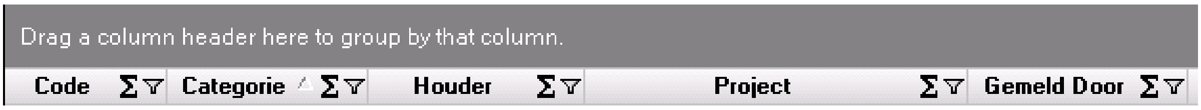


Drag a column header here to group by that column.

	Code	Categorie	Houder	Gemeld Doo	Omschrijving	Project
1	1024	Doc	Aeilkema	Aeilkema	Documentatie OLA	C204 - 1042 - Beheer Energetic (24-0
2	1022	Doc	Aeilkema		test synchronisatie taak estate - agenda outlook	C204 - 1042 - Beheer Energetic (24-0

The above figure shows that the column 'Project' is moved to the location between the columns ‘Holder’ and ‘Reported By’.

If you release the left mouse button, the column is moved to the new location. This is shown on the image below.

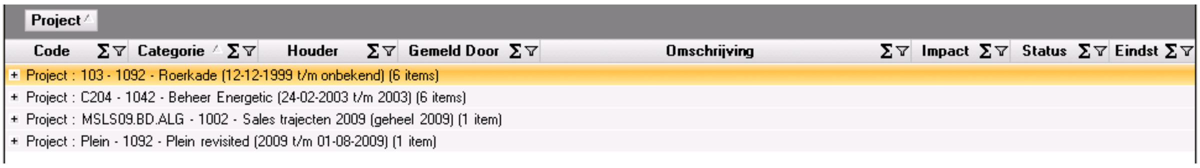


Drag a column header here to group by that column.

Code	Categorie	Houder	Project	Gemeld Door

Grouping

Above the column headers of the search results the text ‘Drag a column header here to group by that column’ is displayed. You can group by dragging the column on which you want to group to this area. For example, to display the search results grouped by project, drag the column header 'Project' to the dark gray area. This is shown in the image below.



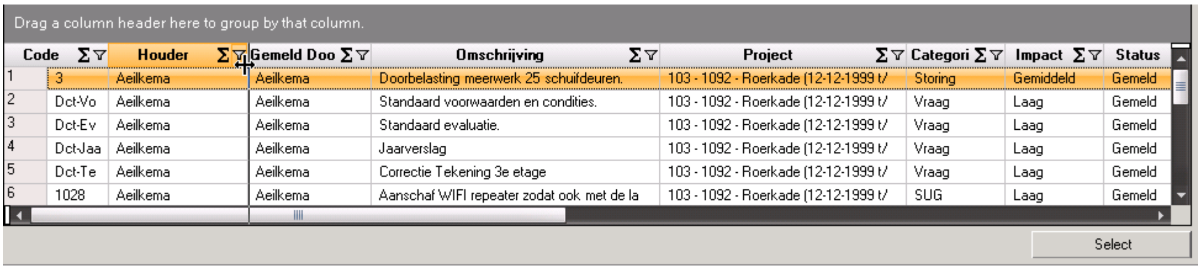
Project

Code	Categorie	Houder	Gemeld Door	Omschrijving	Impact	Status	Eindst

- Project : 103 - 1092 - Roerkade (12-12-1999 t/m onbekend) (6 items)
- Project : C204 - 1042 - Beheer Energetic (24-02-2003 t/m 2003) (6 items)
- Project : MSLS09.BD.ALG - 1002 - Sales trajecten 2009 (geheel 2009) (1 item)
- Project : Plein - 1092 - Plein revisited (2009 t/m 01-08-2009) (1 item)

Change Column Width

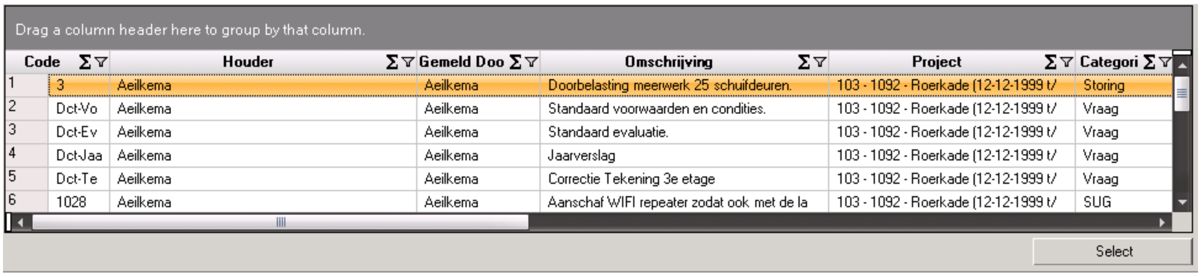
Columns can be made wider or narrower by moving the cursor in a column header over the border with another column header. The cursor changes in that moment in a horizontal double arrow. Now select the left mouse button. The boundary line between the column is now displayed in bold.



Drag a column header here to group by that column.

	Code	Houder	Gemeld Doo	Omschrijving	Project	Categori	Impact	Status
1	3	Aeilkema	Aeilkema	Doorbelasting meerwerk 25 schuifdeuren.	103 - 1092 - Roerkade (12-12-1999 t/	Storing	Gemiddeld	Gemeld
2	Dct-Vo	Aeilkema	Aeilkema	Standaard voorwaarden en condities.	103 - 1092 - Roerkade (12-12-1999 t/	Vraag	Laag	Gemeld
3	Dct-Ev	Aeilkema	Aeilkema	Standaard evaluatie.	103 - 1092 - Roerkade (12-12-1999 t/	Vraag	Laag	Gemeld
4	Dct-Jaa	Aeilkema	Aeilkema	Jaarverslag	103 - 1092 - Roerkade (12-12-1999 t/	Vraag	Laag	Gemeld
5	Dct-Te	Aeilkema	Aeilkema	Correctie Tekening 3e etage	103 - 1092 - Roerkade (12-12-1999 t/	Vraag	Laag	Gemeld
6	1028	Aeilkema	Aeilkema	Aanschaf WIFI repeater zodat ook met de la	103 - 1092 - Roerkade (12-12-1999 t/	SUG	Laag	Gemeld

This indicates that you can make the column wider or smaller by moving the mouse. In the image below the width of the column ‘Holder’ is increased.



Drag a column header here to group by that column.

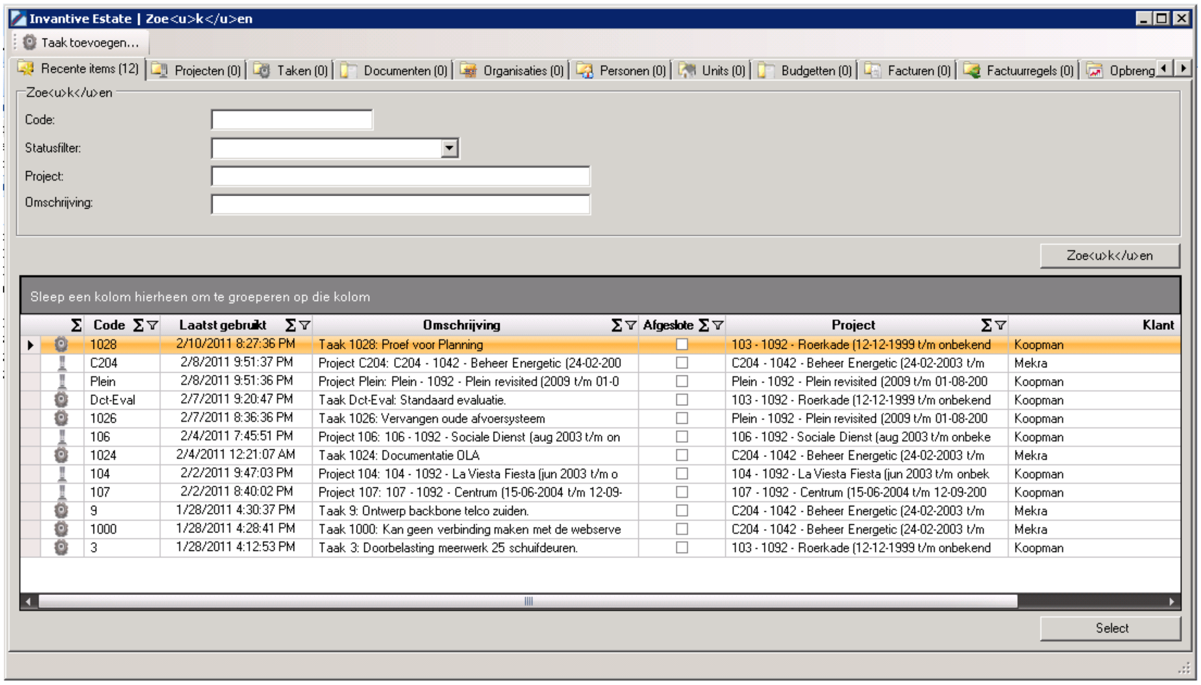
	Code	Houder	Gemeld Doo	Omschrijving	Project	Categori
1	3	Aeilkema	Aeilkema	Doorbelasting meerwerk 25 schuifdeuren.	103 - 1092 - Roerkade (12-12-1999 t/	Storing
2	Dct-Vo	Aeilkema	Aeilkema	Standaard voorwaarden en condities.	103 - 1092 - Roerkade (12-12-1999 t/	Vraag
3	Dct-Ev	Aeilkema	Aeilkema	Standaard evaluatie.	103 - 1092 - Roerkade (12-12-1999 t/	Vraag
4	Dct-Jaa	Aeilkema	Aeilkema	Jaarverslag	103 - 1092 - Roerkade (12-12-1999 t/	Vraag
5	Dct-Te	Aeilkema	Aeilkema	Correctie Tekening 3e etage	103 - 1092 - Roerkade (12-12-1999 t/	Vraag
6	1028	Aeilkema	Aeilkema	Aanschaf WIFI repeater zodat ook met de la	103 - 1092 - Roerkade (12-12-1999 t/	SUG

Tabs

The tabs give you the option to directly and quickly carry out changes in the project administration of Invantive Estate.

After you select the menu option Quick Open

First you can search and select the project item you want to change, using the tabs on the screen. After you select Quick Open, the next screen will appear.


Invantive Estate | Zoeken
Taak toevoegen...
Recente items (12)
Projecten (0)
Taken (0)
Documenten (0)
Organisaties (0)
Personen (0)
Units (0)
Budgetten (0)
Facturen (0)
Factuurregels (0)
Opbreng
Zoeken
Code:
Statusfilter:
Project:
Omschrijving:
Zoeken
Sleep een kolom hierheen om te groeperen op die kolom
Select

Code	Laatst gebruikt	Omschrijving	Afgeslote	Project	Klant
1028	2/10/2011 8:27:36 PM	Taak 1028: Proef voor Planning	☐	103 - 1092 - Roerkade (12-12-1999 t/m onbekend	Koopman
C204	2/8/2011 9:51:37 PM	Project C204: C204 - 1042 - Beheer Energetic (24-02-200	☐	C204 - 1042 - Beheer Energetic (24-02-2003 t/m	Mekra
Plein	2/8/2011 9:51:36 PM	Project Plein: Plein - 1092 - Plein revisited (2009 t/m 01-0	☐	Plein - 1092 - Plein revisited (2009 t/m 01-08-200	Koopman
Dct-Eval	2/7/2011 9:20:47 PM	Taak Dct-Eval: Standaard evaluatie.	☐	103 - 1092 - Roerkade (12-12-1999 t/m onbekend	Koopman
1026	2/7/2011 8:36:36 PM	Taak 1026: Vervangen oude afvoersysteem	☐	Plein - 1092 - Plein revisited (2009 t/m 01-08-200	Koopman
106	2/4/2011 7:45:51 PM	Project 106: 106 - 1092 - Sociale Dienst (aug 2003 t/m on	☐	106 - 1092 - Sociale Dienst (aug 2003 t/m onbeke	Koopman
1024	2/4/2011 12:21:07 AM	Taak 1024: Documentatie OLA	☐	C204 - 1042 - Beheer Energetic (24-02-2003 t/m	Mekra
104	2/2/2011 9:47:03 PM	Project 104: 104 - 1092 - La Viesta Fiesta (jun 2003 t/m o	☐	104 - 1092 - La Viesta Fiesta (jun 2003 t/m onbek	Koopman
107	2/2/2011 8:40:02 PM	Project 107: 107 - 1092 - Centrum (15-06-2004 t/m 12-09-	☐	107 - 1092 - Centrum (15-06-2004 t/m 12-09-200	Koopman
9	1/28/2011 4:30:37 PM	Taak 9: Ontwerp backbone telco zuiden.	☐	C204 - 1042 - Beheer Energetic (24-02-2003 t/m	Mekra
1000	1/28/2011 4:28:41 PM	Taak 1000: Kan geen verbinding maken met de webserve	☐	C204 - 1042 - Beheer Energetic (24-02-2003 t/m	Mekra
3	1/28/2011 4:12:53 PM	Taak 3: Doorbelasting meerwerk 25 schuifdeuren.	☐	103 - 1092 - Roerkade (12-12-1999 t/m onbekend	Koopman

The tab pag Recent Items is selected. Behind the title the number of items the tab page contains is mentioned. The project items which you opened last, are shown down in the tab.

All tab pages in this screen contain a searching functionality in the upper framework of the tab page. To search information fill in the data in the search filter to which the results must measure up to. To search on project code '103' fill in the field 'Code' the value '103' and click on 'Search'. In paragraph Searching 381 the search functionality is described in detail.

The other tabs in this screen are:

- Projects
- Processes
- Documents
- Organizations
- Persons
- Units
- Budgets
- Invoices
- Invoice Lines
- Revenues
- Orders
- Budget Movements
- Contract Budgets
- Latest estimations

The tabs are described in the next paragraphs.

The tab ‘Recen items’ is selected. In this tab, the following project items are shown:

- The posting of hours on projects or processes.
- Other project activity.
- Other process activity.
- Changes in the filter.

Enter text here.

Enter text here.

Enter text here.

Enter text here.

Enter text here.

Enter text here.

Enter text here.

Enter text here.

Enter text here.

Enter text here.

Enter text here.

Enter text here.

Enter text here.

1.3.2.3 Reports

The menu option reports allows you to retrieve all kind of information about a project.

Formats

Every report is available in the Adobe Reader or Adobe Acrobat PDF format and in the Microsoft Excel XLS format. The information in both report formats (Excel and Acrobat) is exactly the same. The only difference is the layout in Microsoft Excel, which isn't as good as the layout in a PDF file. The program ‘Adobe Reader’ is free available on the Adobe Website.

Direct link

You can quickly edit data when you are viewing reports. The detail data that can be changed (orders, returns, and adjustments of cost) will have hyperlinks. By clicking on the desired hyperlink in the report, Invantive Estate will be opened automatically. In case you're not logged in, Invantive Estate will ask you to log in. After you log in, Invantive Estate will open the screen that contains the source data which is used to produce the report (in case you have the required rights). If you have the rights to edit data, yu can customize the numbers. Then you can update the report by a rerun. The report will now show the edited numbers.

1.3.2.4 Explorer

Enter text here.

1.3.2.5 Query Tool

See

1.3.2.6 Open Invantive Website

Enter text here.

1.3.2.7 Preferences

The settings which are made in this screen, apply only to the user who is logged on. The screen ‘My Preferences’ contains a number of tabs. These are explained in the following paragraphs.

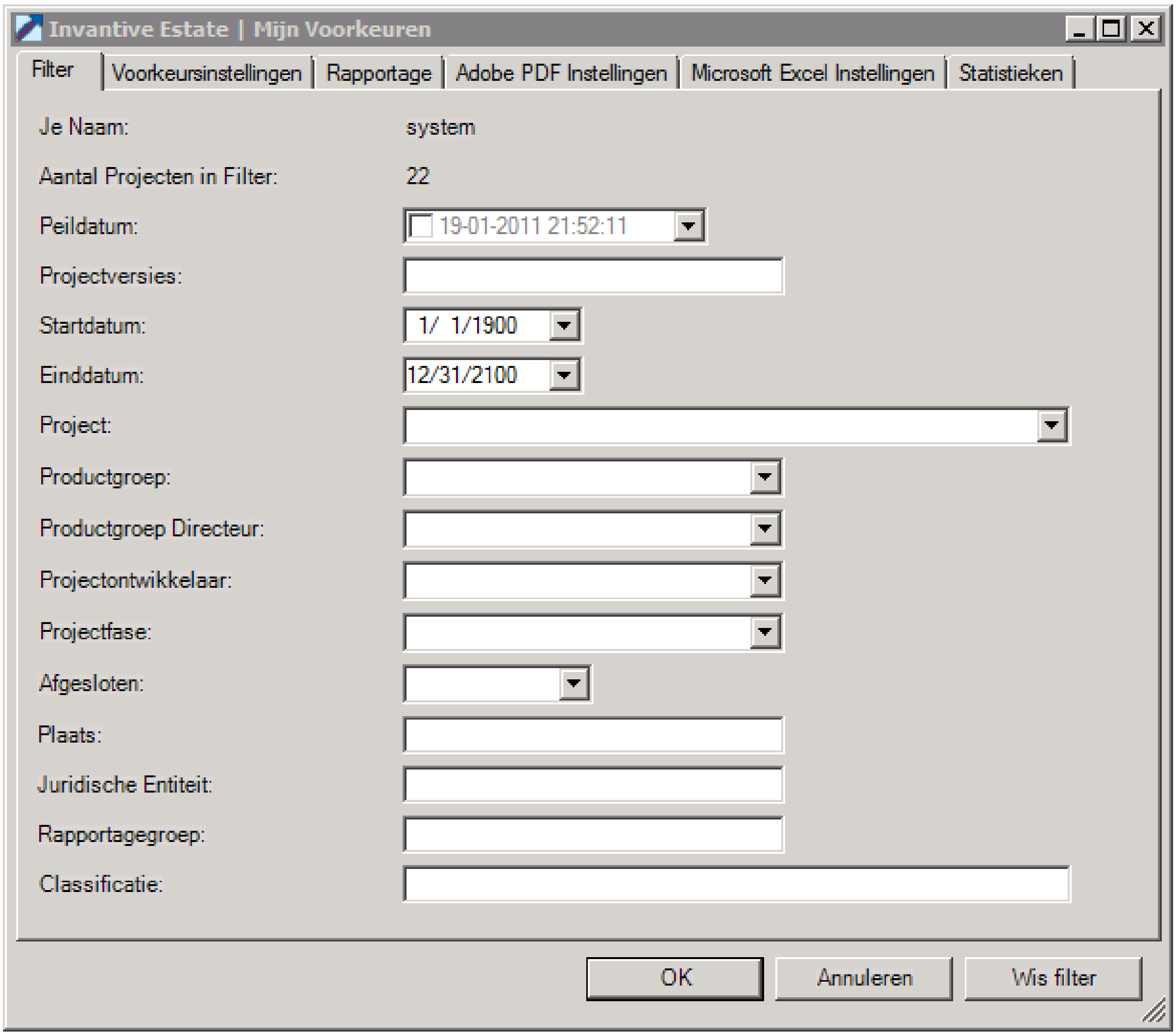
Filter

After you select ‘My preferences’ you will go to the tab ‘Filter’ of the screen ‘My Preferences’.

Every user of Invantive Estate has access to some of the projects or even to all projects. However, you usually work with only one part of the projects or just one project. The filter helps you in all reports and screens to see and edit only the project data that are relevant to you.

The section ‘Filter’ in the screen ‘My Preferences’ consists of a list of restrictions which are combined to form a list of projects that comply with these restrictions.

If you wish to erase the filter then use the button ‘Erase filter’.



Je Naam:	system
Aantal Projecten in Filter:	22
Peildatum:	☐ 19-01-2011 21:52:11
Projectversies:	
Startdatum:	1/ 1/1900
Einddatum:	12/31/2100
Project:	
Productgroep:	
Productgroep Directeur:	
Projectontwikkelaar:	
Projectfase:	
Afgesloten:	
Plaats:	
Juridische Entiteit:	
Rapportagegroep:	
Classificatie:	

The meaning of the entry fields is:

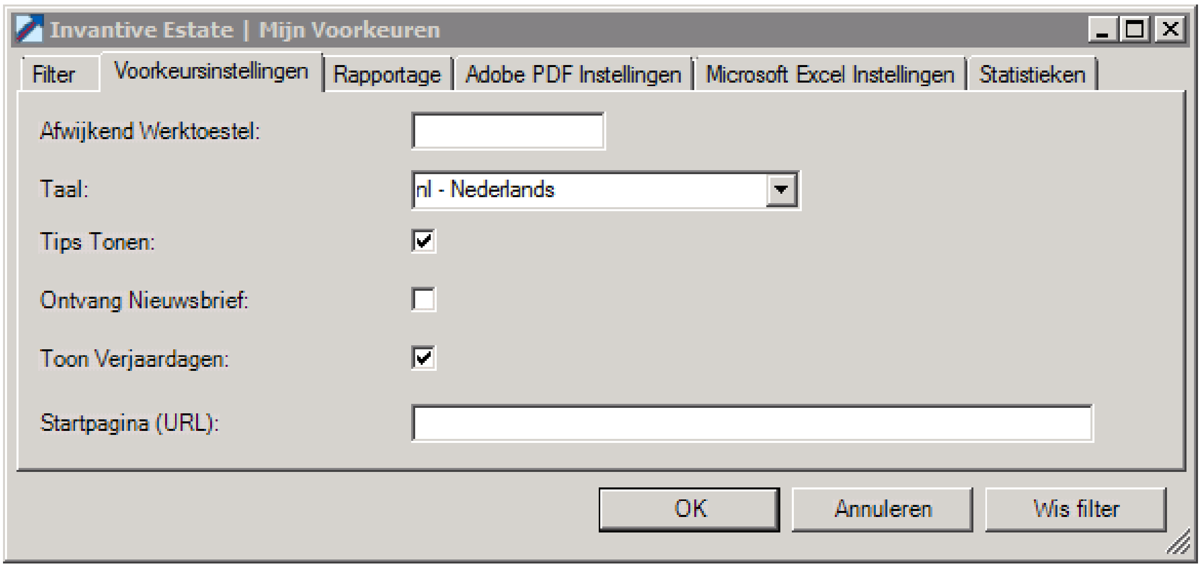
Reporting Date	Here you can enter the reporting date for which the information on the reports should be shown. This date is activated by checking the selection box.
Project Versions	Displays the project version of the project data which has to be shown in the reports.
Start Date	The start of the reporting data range. All data before this date are not reported.
End Date	The end of the reporting date range. All data after this date are not reported.
Project	Limit the filter to a specific project.
Product group	Limit the filter to all projects from the relevant product group.
Product Group Director	Limit the filter to all projects with the product group director.
Project developer	Limit the filter to all relevant projects of the relevant developer.
Project Phase	Limit the filter to all projects in the relevant implementation stage.
Closed	Limit the filter to all projects that have been closed or not.
City	Limit the filter to all projects where the name of the city where they are executed contains this text.
Legal Entity	Limit the filter to all projects where the name of the legal structure under which they are executed contains this text.
Reporting group	Limit the filter to all projects where the reporting group contains this text.
Classification	Limit the filter to all projects with the classification that appears in this field. A classification is a label that can be linked to a project or a person. With these labels you can find the desired information more easily.

The meaning of the other fields:

Your Name	Your name as registered in the personal administration.
Number of Projects in Filter	Indicates the number of projects that comply with the settings in the filter.

Preferences

Select the tab ‘Preferences’. The following screen opens.


Invantive Estate | Mijn Voorkeuren
Filter
Voorkeursinstellingen
Rapportage
Adobe PDF Instellingen
Microsoft Excel Instellingen
Statistieken
OK
Annuleren
Wis filter

Afwijkend Werktoestel:

Taal: nl - Nederlands

Tips Tonen: ☑

Ontvang Nieuwsbrief: ☐

Toon Verjaardagen: ☑

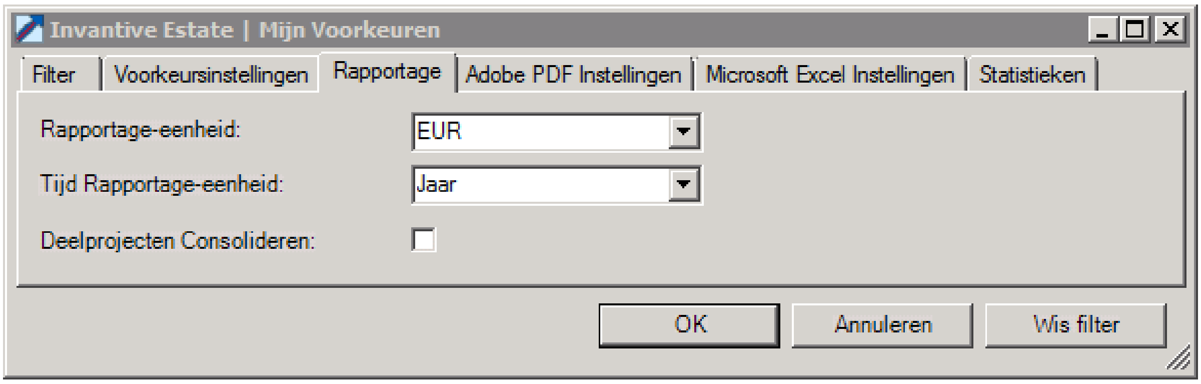
Startpagina (URL):

The meaning of the entry fields is:

Deviating Work Extension	Alternate phone number to reach the user at work.
Language	The preferred language in which the user interface needs to be presented. See also Multi-linguality 35.
Show Tips	When checked, after you log on, tips for using Invantive Estate will be shown.
Receive Newsletter	When checked, the user will receive the newsletter of the dealer.
Show Anniversaries	When checked, after you log on, the near birthdays of users of Invantive Estate are shown.
Start Page (URL)	The URL that will be opened after you have logged on. The URL will be requested with the parameter MNU_CODE = Main. If the field is empty, then the URL in the field ‘Main menu (URL)’ in the screen Settings 336 of the web user interface will be used.

Report

Select the tab ‘Reports’. The following screen opens.


Invantive Estate | Mijn Voorkeuren
Filter
Voorkeursinstellingen
Rapportage
Adobe PDF Instellingen
Microsoft Excel Instellingen
Statistieken
OK
Annuleren
Wis filter

Rapportage-eenheid: EUR

Tijd Rapportage-eenheid: Jaar

Deelprojecten Consolideren: ☐

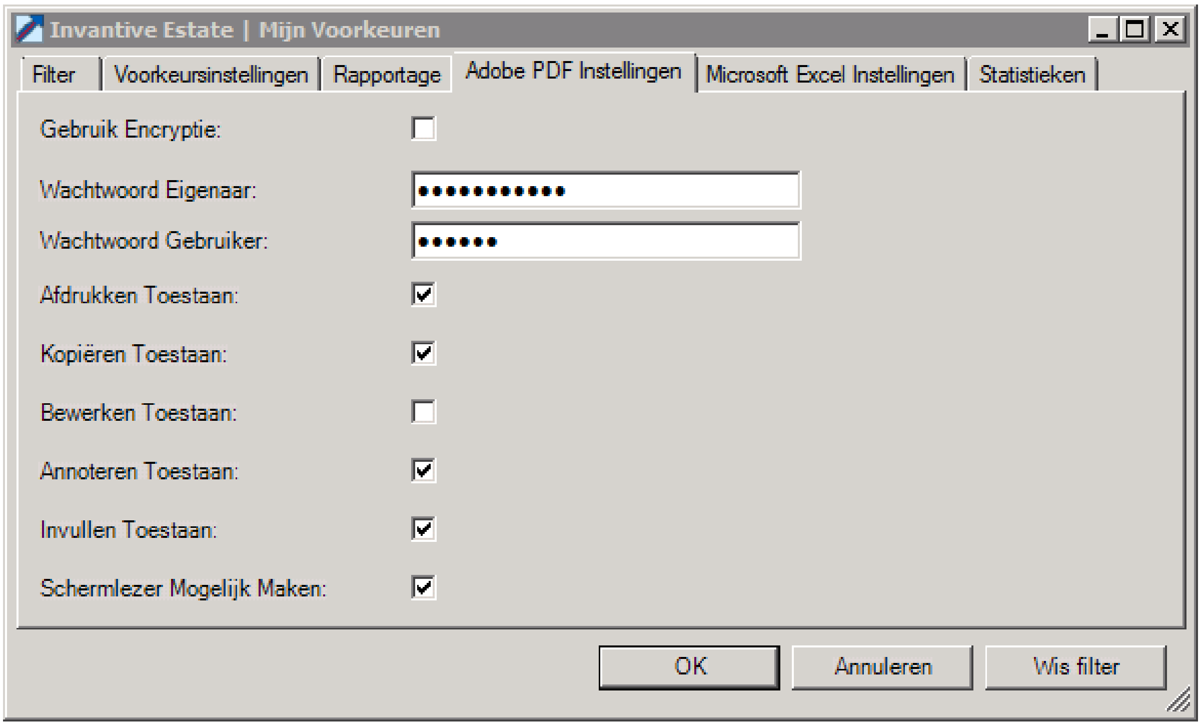
The meaning of the entry fields is:

Reporting Unit	The numerical unit used in the presentation of figures in reports.
Reporting time unit	The time unit used in the presentation of figures in reports reporting time periods.
Merge Subprojects	If this box is checked, then projects are consolidated into master projects and independent

	projects in all financial reports. See also Management Information 110.

Adobe PDF Settings

Select the tab ‘Adobe PDF Settings’. The following screen opens.



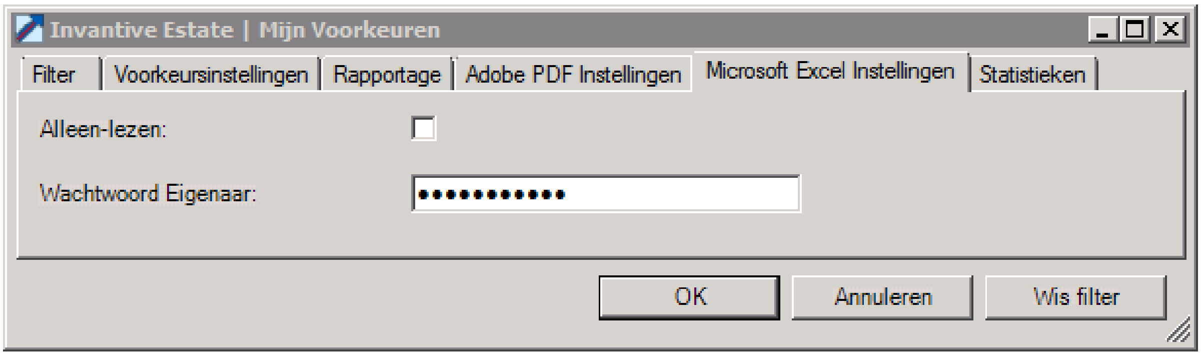
Gebruik Encryptie: ☐
Wachtwoord Eigenaar: ●●●●●●●●●●●
Wachtwoord Gebruiker: ●●●●●●
Afdrukken Toestaan: ☑
Kopiëren Toestaan: ☑
Bewerken Toestaan: ☐
Annoteren Toestaan: ☑
Invullen Toestaan: ☑
Schermlezer Mogelijk Maken: ☑

The meaning of the entry fields is:

Use Encryption	If this box is checked, all PDF reports will be secured with two passwords: one password for the owner, who has full rights and another password for the person who gets limited rights as will be registered with the other check boxes.
Password Owner	The password for all PDF reports with which one is granted full rights for the PDF.
Password User	The password for all PDF reports with which one is granted limited rights, as registered by the following options.
Allow Printing	In case this box is checked, an authorised PDF user can print the file.
Allow Copying	If this box is checked, then an authorized user can copy text from the PDF file into a Microsoft Word file.
Allow Modifying	In case this box is checked, an authorised PDF user can change the file by for instance deleting texts from it.
Allow Annotating	In case this box is checked, an authorised PDF user can add an annotation to the file.
Allow Fill In	In case this box is checked, an authorised PDF user can fill out any forms attached to the file.
Enable Screen Reader Options	In case this box is checked, an authorised PDF user can use a screen reader. A screen reader is a tool for the visually impaired; it is recommended to always allow this option.

Microsoft Excel Settings

Select the tab ‘Microsoft Excel’. The following screen opens.


Invantive Estate | Mijn Voorkeuren
Filter
Voorkeursinstellingen
Rapportage
Adobe PDF Instellingen
Microsoft Excel Instellingen
Statistieken
OK
Annuleren
Wis filter

Alleen-lezen: ☐

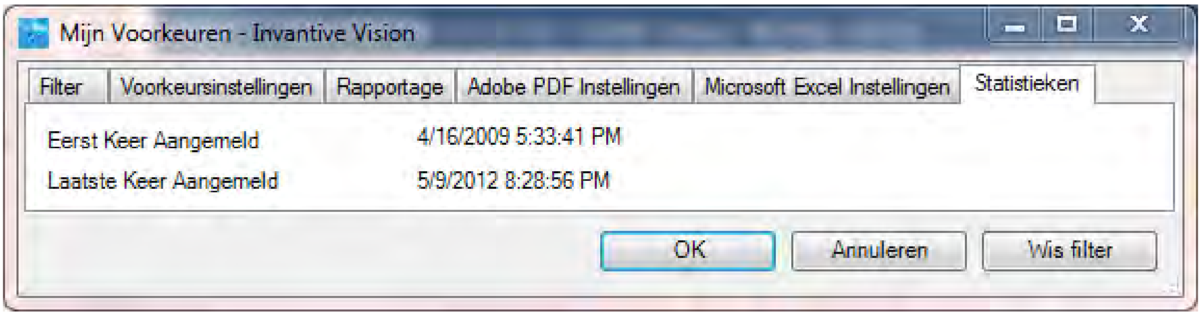
Wachtwoord Eigenaar: ●●●●●●●●●●●

The meaning of the entry fields is:

Read-only	If this box is checked, then the authorized user, can only read the Excel file. How ever, no changes can be made.
Passw ord for Editing File	The passw ord of the Excel files necessary to change them.

Statistics

Select the tab ‘Statistics’. The following screen opens.


Mijn Voorkeuren - Invantive Vision
Filter
Voorkeursinstellingen
Rapportage
Adobe PDF Instellingen
Microsoft Excel Instellingen
Statistieken
OK
Annuleren
Wis filter

Eerst Keer Aangemeld 4/16/2009 5:33:41 PM

Laatste Keer Aangemeld 5/9/2012 8:28:56 PM

The meaning of the fields is displayed:

First Login	Date on w hich you logged in for the first time using the w eb user interface.
Last Login	Date last time logged in via the w eb user interface.

1.3.3 Calendar

This section contains information about the functions needed to exchange data between the Microsoft Outlook calendar and the project administration of Invantive Estate.

1.3.3.1 Calendar Update

This chapter describes how your data in the calendar of Microsoft Outlook can be used for the administration of timesheets in Invantive Estate.

The menu item Calendar Update performs a number of functions:

- The worked hours for a project that you have registered in the Microsoft Outlook calendar, are exported to the project hour administration in Invantive Estate.
- The hours that have been registered in the project hour administration in Invantive Estate, are exported to the Microsoft Outlook calendar.
- The changes that you have made in your hour registration in your Microsoft Outlook calendar are exported to the project hour administration of Invantive Estate and vice versa.

The export and import of hours worked in the Microsoft Outlook calendar increases efficiency because the hours worked do not need to be entered twice manually. In addition, it minimizes the chance of errors.

Requirements for Editing Agenda

Requirements tp synchronise the Microsoft Outlook calendar with the project hour administration in Invantive Estate:

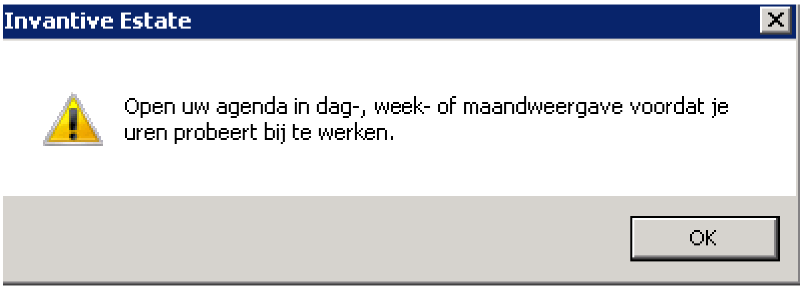
- The Microsoft Outlook calendar needs to be opened.
- You will need to assign a category to the worked project hours that you have planned in the Microsoft Outlook calendar.
- You will need to assign an Attribute to the worked project hours that you have planned in the Microsoft Outlook calendar.

These requirements are discussed in the following paragraphs.

The tab ‘Timesheets’ shows a list with all categories of messages and/or appointments from your outlook. You can exclude the categories that you do not want to take part in the timesheet processing, by selecting them and move them to the right column.

Microsoft Outlook Calendar has to be open

To synchronize the Microsoft Outlook calendar with the administration of project hours in Invantive Estate you need to open the Microsoft Outlook Calendar. If the Microsoft Outlook calendar is closed, you will get the following error message when selecting the Invantive Estate for Outlook‘ menu option ‘Update Calendar’.

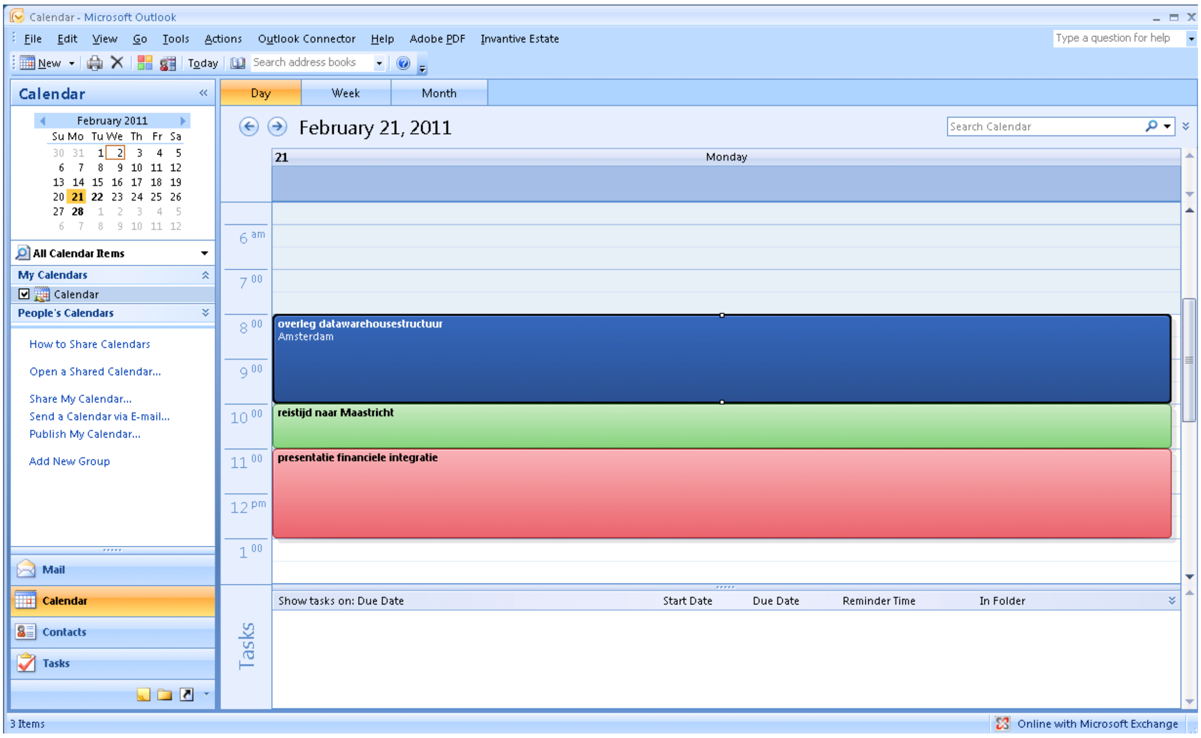


Open uw agenda in dag-, week- of maandweergave voordat je uren probeert bij te werken.

Close the message by selecting OK or the cross in the right upper corner of the window.

Notice! Only the data which is visible in your Microsoft Outlook calendar, will be updated.

If you select a display of only one day in your Microsoft Outlook calendar, then only the hours for this one day will be updated. If you select a calendar view of a month, then only the hours for the selected month are processed etc. In the screen below is in the Microsoft Outlook calendar the view of one day selected.


Calendar - Microsoft Outlook
File Edit View Go Tools Actions Outlook Connector Help Adobe PDF Invantive Estate
Type a question for help
New
Today
Search address books
Calendar
February 2011
All Calendar Items
My Calendars
Calendar
People's Calendars
How to Share Calendars
Open a Shared Calendar...
Share My Calendar...
Send a Calendar via E-mail...
Publish My Calendar...
Add New Group
Mail
Calendar
Contacts
Tasks
Day
Week
Month
February 21, 2011
Search Calendar
21
Monday
Tasks
Show tasks on: Due Date
Start Date
Due Date
Reminder Time
In Folder
3 Items
Online with Microsoft Exchange

overleg datawarehousestructuur
Amsterdam

reistijd naar Maastricht

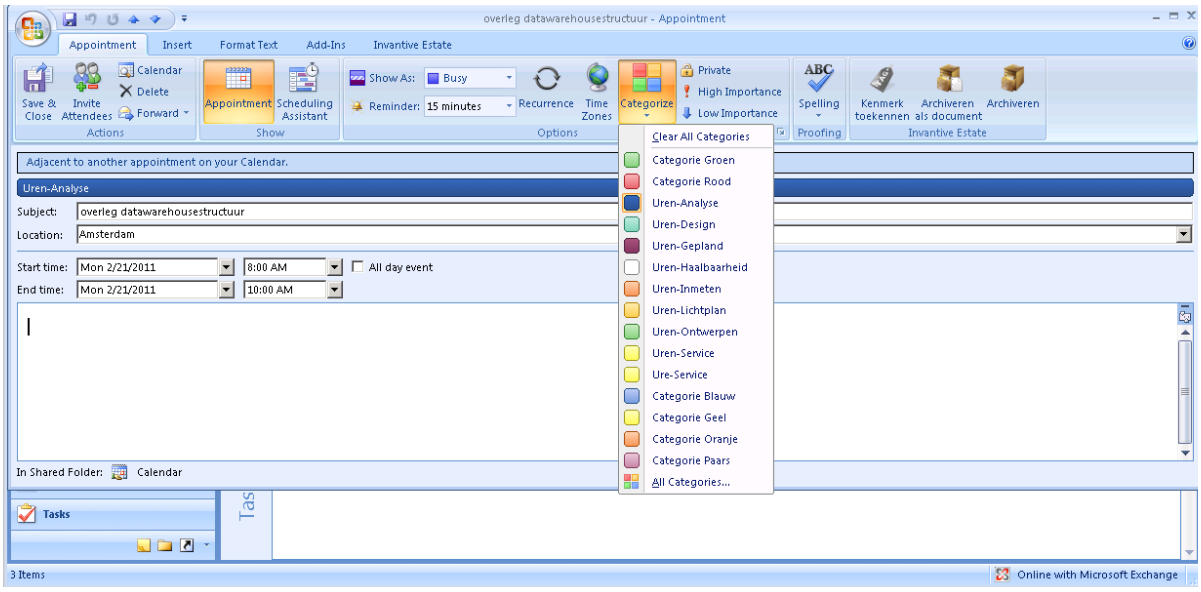
presentatie financiele integratie

Assign Labor Type

To synchronise the worked project hours that you have planned in the Microsoft Outlook calendar with the project hour administration in Invantive Estate, you need to assign a ‘category’ as work type. A category can be used within Microsoft Outlook to sort Microsoft Outlook items in various categories. Categories ensure that it easy to organize, search, sort and process items.

Categories are used by Invantive Estate to correctly register the worked project hours from the Microsoft Outlook calendar to a work type which is necessary for for example the invoicing process. To properly register the worked project hours from the Microsoft Outlook calendar the categories that are assigned to these project hours in Invantive Estate need to be linked to a work type. Categories are linked in Invantive Estate to a work type in the screen Work types 177.

To link a category to your project hours in the Microsoft Outlook calendar, open the registered hours in the Microsoft Outlook calendar. Subsequently you select in the Microsoft Outlook ribbon the item Categories and select the category of your choice. In the screen below you can see that by looking at the hours that were assigned to ‘consultation data warehouse structure’ the category ‘Hour Analysis’.


overleg datawarehousestructuur - Appointment
Appointment
Insert
Format Text
Add-Ins
Invantive Estate
Save & Close
Invite Attendees
Calendar
Delete
Forward
Actions
Appointment
Scheduling Assistant
Show
Recurrence
Time Zones
Categorize
Options
Private
High Importance
Low Importance
Spelling
Proofing
Kenmerk toekennen
Archiveren als document
Archiveren
Invantive Estate
Clear All Categories
Categorie Groen
Categorie Rood
Uren-Analyse
Uren-Design
Uren-Gepland
Uren-Haalbaarheid
Uren-Inmeten
Uren-Lichtplan
Uren-Ontwerpen
Uren-Service
Ure-Service
Categorie Blauw
Categorie Geel
Categorie Oranje
Categorie Paars
All Categories...
Tasks
Tas
3 Items
Online with Microsoft Exchange

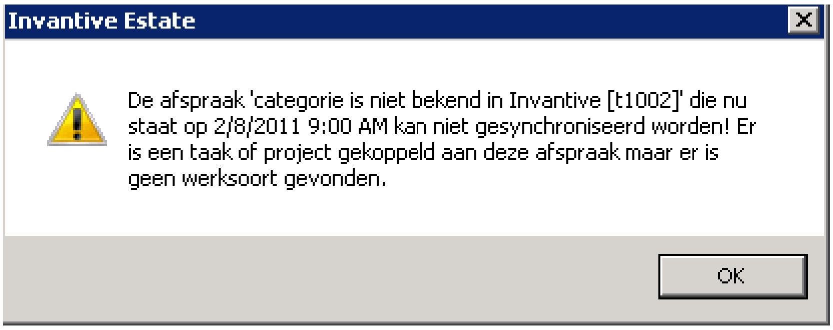
Show As: Busy
Reminder: 15 minutes

Adjacent to another appointment on your Calendar.

Uren-Analyse

Subject: overleg datawarehousestructuur
Location: Amsterdam
Start time: Mon 2/21/2011 8:00 AM ☐ All day event
End time: Mon 2/21/2011 10:00 AM
In Shared Folder: Calendar

If you assign a Category to your registered hours in your Microsoft Outlook calendar which is not assigned to a work type in Invantive Estate and next you select the menu option Synchronize Calendar, you will get the following message:


Invantive Estate
OK

De afspraak 'categorie is niet bekend in Invantive [t1002]' die nu staat op 2/8/2011 9:00 AM kan niet gesynchroniseerd worden! Er is een taak of project gekoppeld aan deze afspraak maar er is geen werksoort gevonden.

To synchronize the project hours you registered in the Microsoft Outlook calendar with the project hour administration in Invantive Estate, you need close the message by selecting OK or the small cross in the right upper corner. Next you open the hours in your Microsoft Outlook calendar and you assign a category which is assigned to a work type in Invantive Estate. An alternative possibility is to lin the category that has not been linked to a work type in Invantive Estate to a work type. If you have the proper authorizations for this, you can do this in the screen Work types 177.

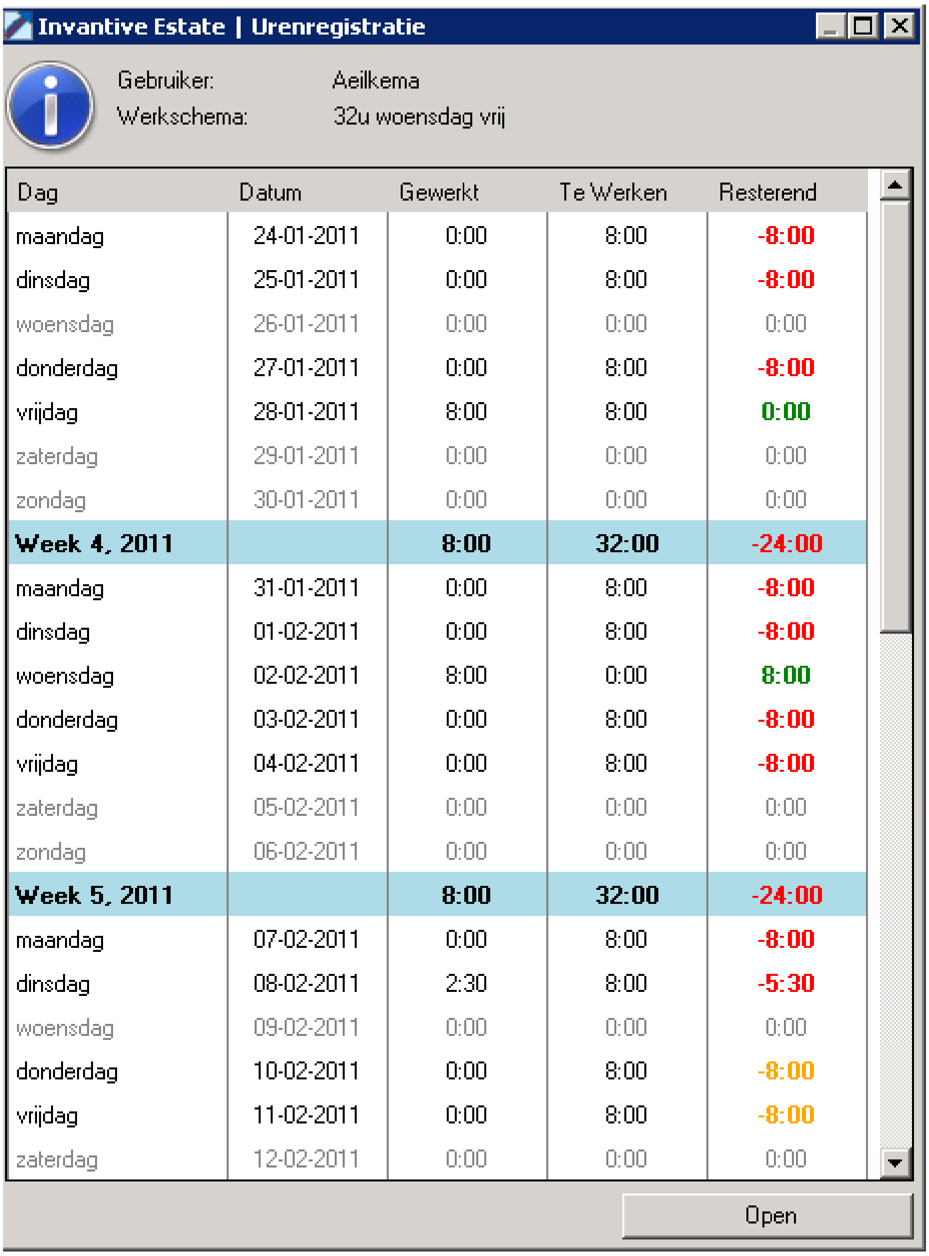
The notification above will also appear if you have assigned an Attribute in your Microsoft Outlook 395 calendar, but no Category and you have subsequently selected the menu option Update Calendar. To export your registered hours from your Microsoft Outlook calendar to Invantive Estate, you need to close the message by selecting OK or the cross in the right upper corner of the message window. Next you open the hours in your Microsoft Outlook calendar and you assign a category which is assigned to a work type in Invantive Estate.

Microsoft Outlook offers you the option to create new categories. To use these new categories in the synchronization process between the Microsoft Outlook calendar and Invantive Estate, you will need to link the new categories in Invantive Estate to a work type in the window Work types 177.

Attribute Assignment

Registration of hours worked

After you have assigned a category and attribute to the worked project hours in the Microsoft Outlook calendar, you can synchronise these hours with the project hour administration in Invantive Estate. Ensure that your opened Microsoft Outlook calendar displays the worked project hours that you want to synchronise with the project administration in Invantive Estate. Now select the menu option ‘Update Calendar’. The hours are updated and the following Hour Registration Overview appears.



Gebruiker: Aeilkema
Werkschema: 32u woensdag vrij

Dag	Datum	Gewerkt	Te Werken	Resterend
maandag	24-01-2011	0:00	8:00	-8:00
dinsdag	25-01-2011	0:00	8:00	-8:00
woensdag	26-01-2011	0:00	0:00	0:00
donderdag	27-01-2011	0:00	8:00	-8:00
vrijdag	28-01-2011	8:00	8:00	0:00
zaterdag	29-01-2011	0:00	0:00	0:00
zondag	30-01-2011	0:00	0:00	0:00
Week 4, 2011		**8:00**	**32:00**	**-24:00**
maandag	31-01-2011	0:00	8:00	-8:00
dinsdag	01-02-2011	0:00	8:00	-8:00
woensdag	02-02-2011	8:00	0:00	8:00
donderdag	03-02-2011	0:00	8:00	-8:00
vrijdag	04-02-2011	0:00	8:00	-8:00
zaterdag	05-02-2011	0:00	0:00	0:00
zondag	06-02-2011	0:00	0:00	0:00
Week 5, 2011		**8:00**	**32:00**	**-24:00**
maandag	07-02-2011	0:00	8:00	-8:00
dinsdag	08-02-2011	2:30	8:00	-5:30
woensdag	09-02-2011	0:00	0:00	0:00
donderdag	10-02-2011	0:00	8:00	-8:00
vrijdag	11-02-2011	0:00	8:00	-8:00
zaterdag	12-02-2011	0:00	0:00	0:00

The meaning of the columns is:

Day	The day.
Date	The date.
Worked	The number of hours that the Invantive Estate user has worked on this date.
To Work	The number of hours that the Invantive Estate user needs to work according to the work schedule as it is registered in Work Schedules 175 and Work Schedule Exceptions 176.
Remaining	The remainder between the ‘Worked’ hours and the ‘To Work’ hours.

In order to ...... select Open..

1.3.3.2 Overview last action

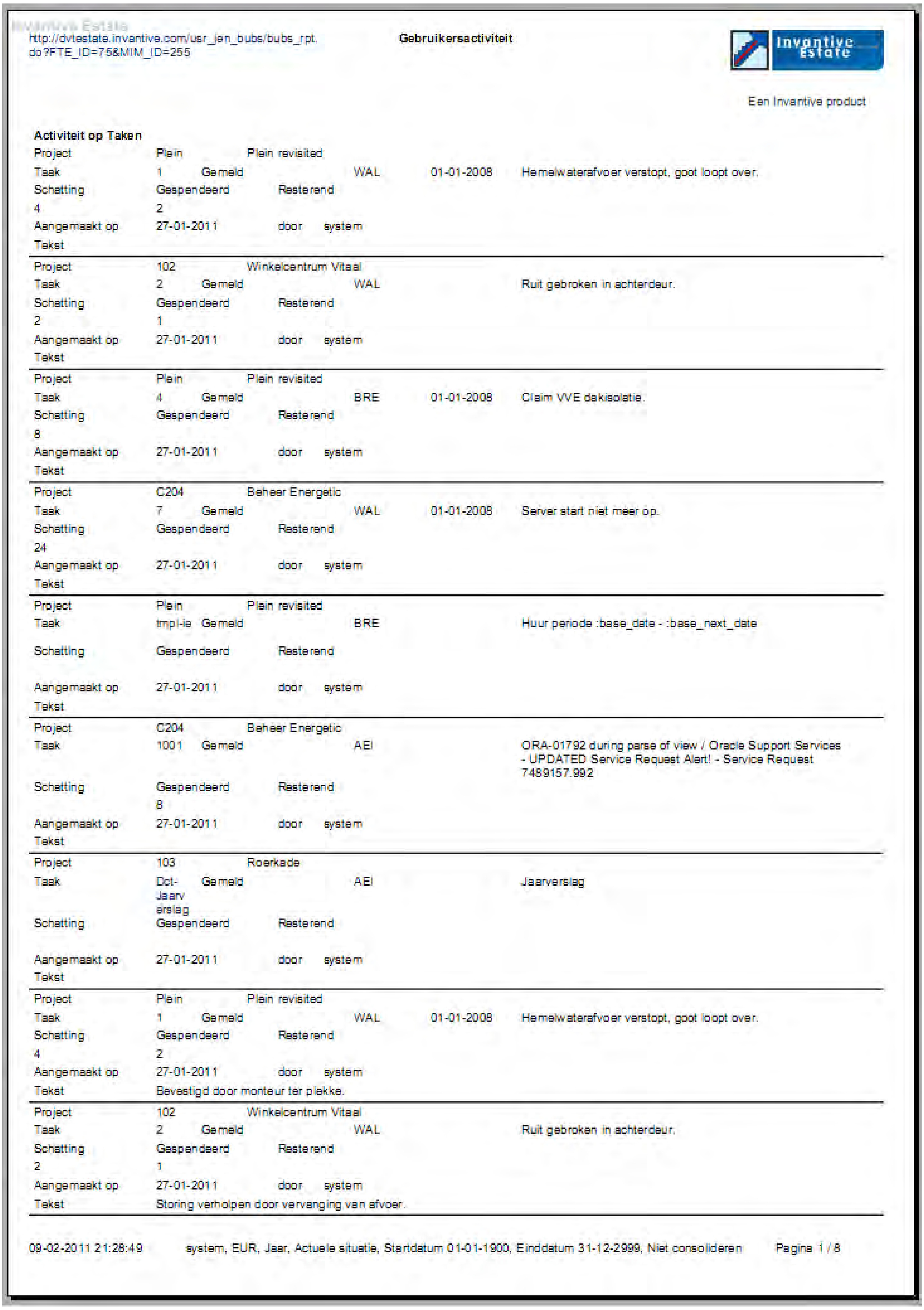
This menu option opens an hour registration review of the hours which are registered in Invantive Estate before the data is shown in your opened Microsoft Outlook calendar.

The meaning of the columns is described in hour registration 396.

1.3.3.3 User Activity (pdf)

Through this registration you can provide this information in a quick and clear manner. This screen allows you to request ‘process level’ where a person worked on.

In the second part of this report which is called ‘Timesheets’, shows the number of hours that a project employee has been working. The picture shows the screen of the model editor.



```
Invantive Estate
http://dvtestate.invantive.com/usr_jen_bubs/bubs_rpt.      Gebruikersactiviteit
do?FTE_ID=75&MIM_ID=255

                                                                                    Een Invantive product

Activiteit op Taken
Project        Plein      Plein revisited
Taak           1       Gemeld              WAL     01-01-2008   Hemelwaterafvoer verstopt, goot loopt over.
Schatting      Gespendeerd     Resterend
4              2
Aangemaakt op  27-01-2011      door    system
Tekst
----------------------------------------------------------------------------------------------------
Project        102        Winkelcentrum Vitaal
Taak           2       Gemeld              WAL                  Ruit gebroken in achterdeur.
Schatting      Gespendeerd     Resterend
2              1
Aangemaakt op  27-01-2011      door    system
Tekst
----------------------------------------------------------------------------------------------------
Project        Plein      Plein revisited
Taak           4       Gemeld              BRE     01-01-2008   Claim VVE dakisolatie.
Schatting      Gespendeerd     Resterend
8
Aangemaakt op  27-01-2011      door    system
Tekst
----------------------------------------------------------------------------------------------------
Project        C204       Beheer Energetic
Taak           7       Gemeld              WAL     01-01-2008   Server start niet meer op.
Schatting      Gespendeerd     Resterend
24
Aangemaakt op  27-01-2011      door    system
Tekst
----------------------------------------------------------------------------------------------------
Project        Plein      Plein revisited
Taak           impl-ie Gemeld              BRE                  Huur periode :base_date - :base_next_date

Schatting      Gespendeerd     Resterend

Aangemaakt op  27-01-2011      door    system
Tekst
----------------------------------------------------------------------------------------------------
Project        C204       Beheer Energetic
Taak           1001    Gemeld              AEI                  ORA-01792 during parse of view / Oracle Support Services
                                                                - UPDATED Service Request Alert! - Service Request
                                                                7489157.992
Schatting      Gespendeerd     Resterend
               8
Aangemaakt op  27-01-2011      door    system
Tekst
----------------------------------------------------------------------------------------------------
Project        103        Roerkade
Taak           Dct-    Gemeld              AEI                  Jaarverslag
               Jaarv
               erslag
Schatting      Gespendeerd     Resterend

Aangemaakt op  27-01-2011      door    system
Tekst
----------------------------------------------------------------------------------------------------
Project        Plein      Plein revisited
Taak           1       Gemeld              WAL     01-01-2008   Hemelwaterafvoer verstopt, goot loopt over.
Schatting      Gespendeerd     Resterend
4              2
Aangemaakt op  27-01-2011      door    system
Tekst          Bevestigd door monteur ter plekke.
----------------------------------------------------------------------------------------------------
Project        102        Winkelcentrum Vitaal
Taak           2       Gemeld              WAL                  Ruit gebroken in achterdeur.
Schatting      Gespendeerd     Resterend
2              1
Aangemaakt op  27-01-2011      door    system
Tekst          Storing verholpen door vervanging van afvoer.
----------------------------------------------------------------------------------------------------

09-02-2011 21:28:49    system, EUR, Jaar, Actuele situatie, Startdatum 01-01-1900, Einddatum 31-12-2999, Niet consolideren    Pagina 1 / 8
```

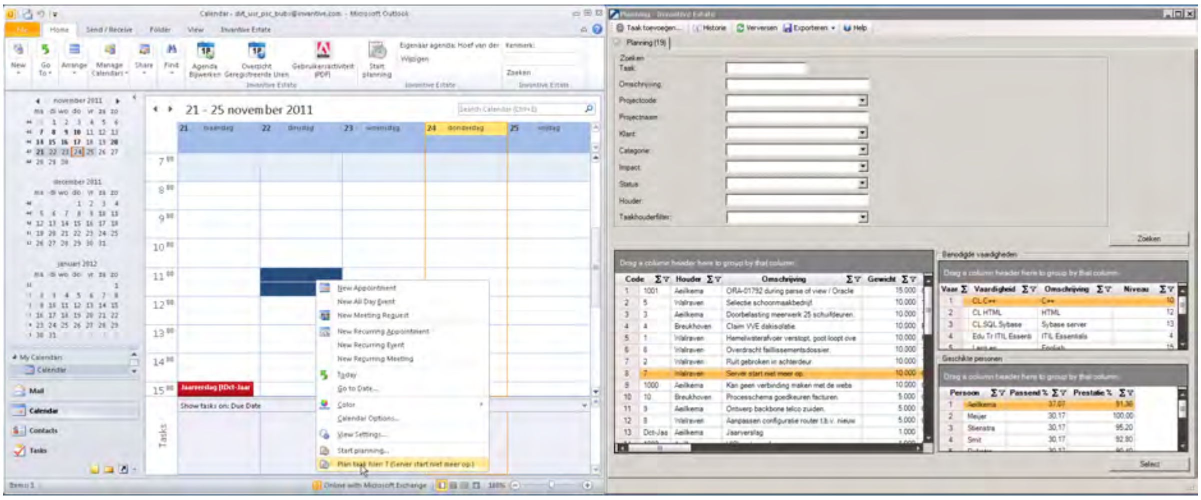
1.3.3.4 Planning

You can assign future hours of yourself or your colleagues to processes using the menu option Schedule. The method of planning a process is:

- Open the schedule module by clicking on the button ‘Start Schedule‘ on the top of the ribbon;
- Select the process you want to plan in the screen ‘Schedule‘;
  - This windows shows the open processes. The weight of the process is determined by the impact of the process and the time in which it has been open.
  - The panel Required Skills shows the skills which are necessary to complete a process. The skill set necessary are entered in the process itself.
  - The panel Qualified Persons shows the person who you can schedule for this process. This is the meaning of the fields:
    - Matching: this indicates how many percent of the required skill matches with the persons skill set.
    - Performance: this indicates the level of the person involved, compared to the required level.
- Go to the calendar where you want to schedule the process. Then choose ‘Schedule process here‘, from the context menu.
- Then a calendar item will be made with the process definition and the process code with the labor type scheduleu.

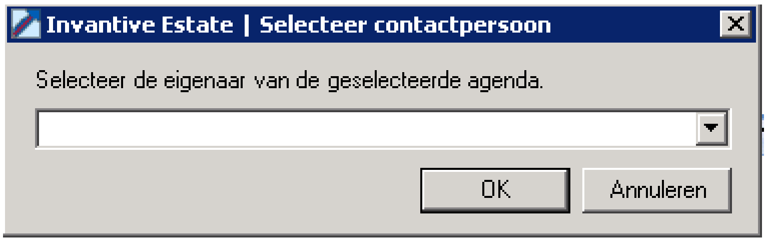
The image below shows the scheduling of process ‘7‘ of tuesday 22 november at 11.00 hour. The usage of the scheduling module makes sure that the scheduled hours are saved directly in Invantive Estate. The hours which were made manually in Microsoft Outlook, will be saved by the button ‘Update Agenda‘ in the ribbon of Invantive Estate.

In the schedule



1.3.3.5 Change Calendar Owner

Using the menu option Change Calendar Owner, you can easily change the calendar of project employees without logging in to Microsoft Outlook again. Select the option Change Calendar Owner. The following screen will be opened.


Invantive Estate | Selecteer contactpersoon

Selecteer de eigenaar van de geselecteerde agenda.

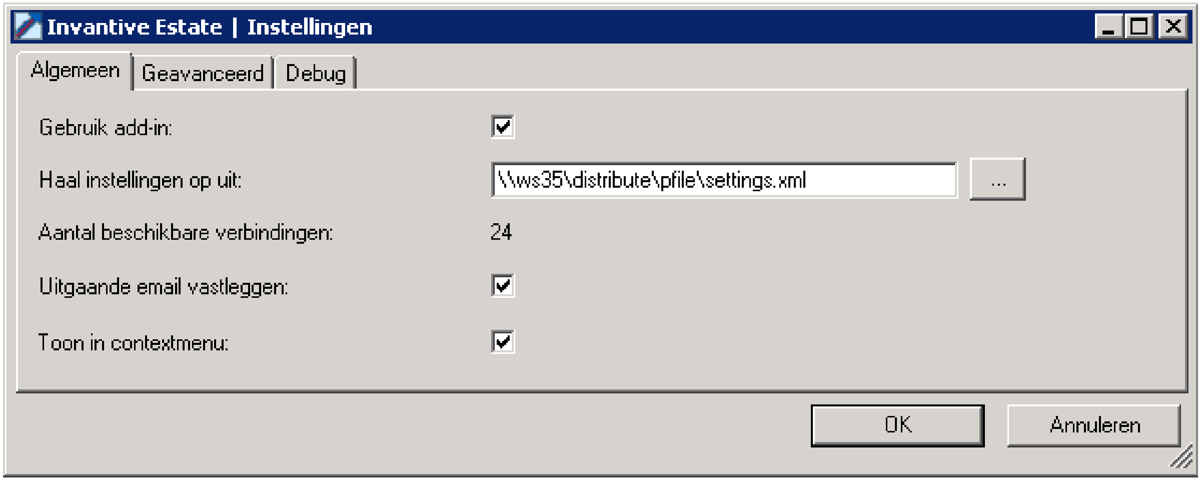
To display the calendar of a different employee, open the list of choices by selecting the triangle left in the list of choices.

1.3.4 Settings

The first time that Microsoft Outlook is opened after the installation of Invantive Estate for Outlook, the setting screen will appear of Invantive Estate for Outlook. Using this screen you can Invantive Estate for Outlook configure. The screen ‘Settings‘ contains the tab pages ‘General’, ‘Advanced’ and ‘Debug’. These tabs are described in the next paragraphs.

1.3.4.1 General

In this tab you can register and change general settings.



Gebruik add-in: ☑

Haal instellingen op uit: \\ws35\distribute\pfile\settings.xml

Aantal beschikbare verbindingen: 24

Uitgaande email vastleggen: ☑

Toon in contextmenu: ☑

The meaning of the entry fields is:

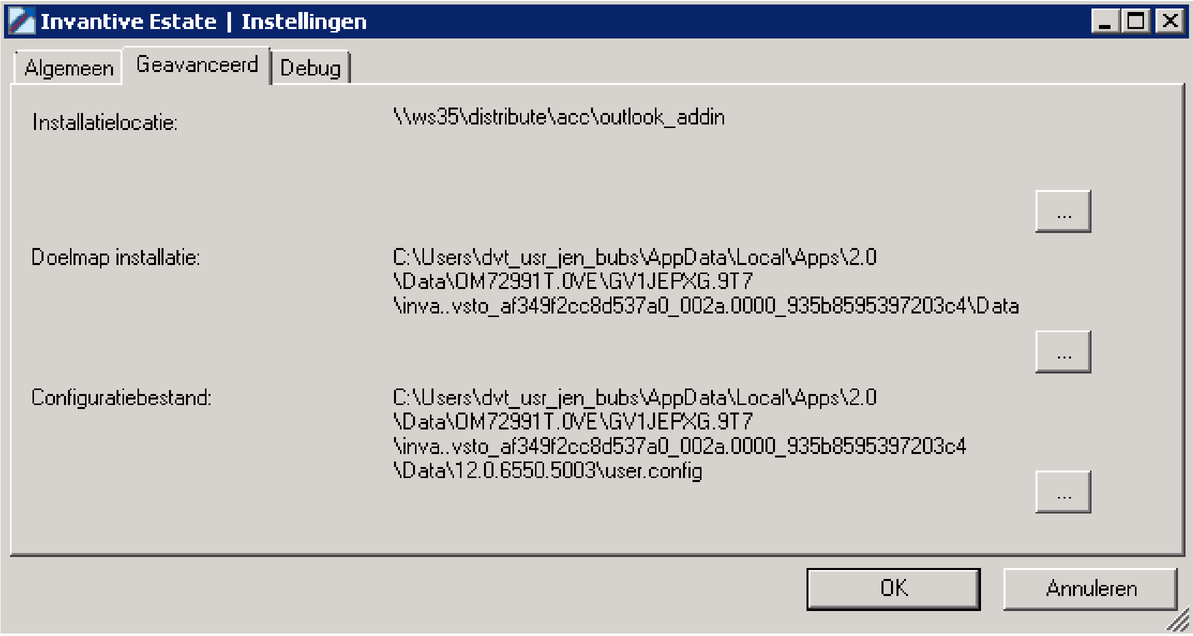
Use Add-In	Using this you can turn the add-in on and off. To make the changed setting active you need to restart Microsoft Outlook.
Get settings from	The specified location where the settings for the connection with the Add-In are saved. See Connection configuration 612 for an explaination about the connection file.
Register outgoing e-mail	Outgoing e-mails are registered in Invantive Estateif they are checked. To enable registration by Invantive Estate fill in a process number in the topic field of your e-mail. A process number starts with ‘[’, then the letter ‘t’ and the number from the process is closed with ‘]’. For example: ‘[t307]’.
Show in context menu	Menu options from Invantive Estate for Outlookare shown in the context menu if they are checked.

The meaning of the other fields:

Number of available connections	The maximal number of possible connections with Invantive Estate via the Invantive Estate for Outlook.

1.3.4.2 Advanced

In this tab page you can enter locations if necessary for the functioning of Invantive Estate for Outlook. By the button zi will open

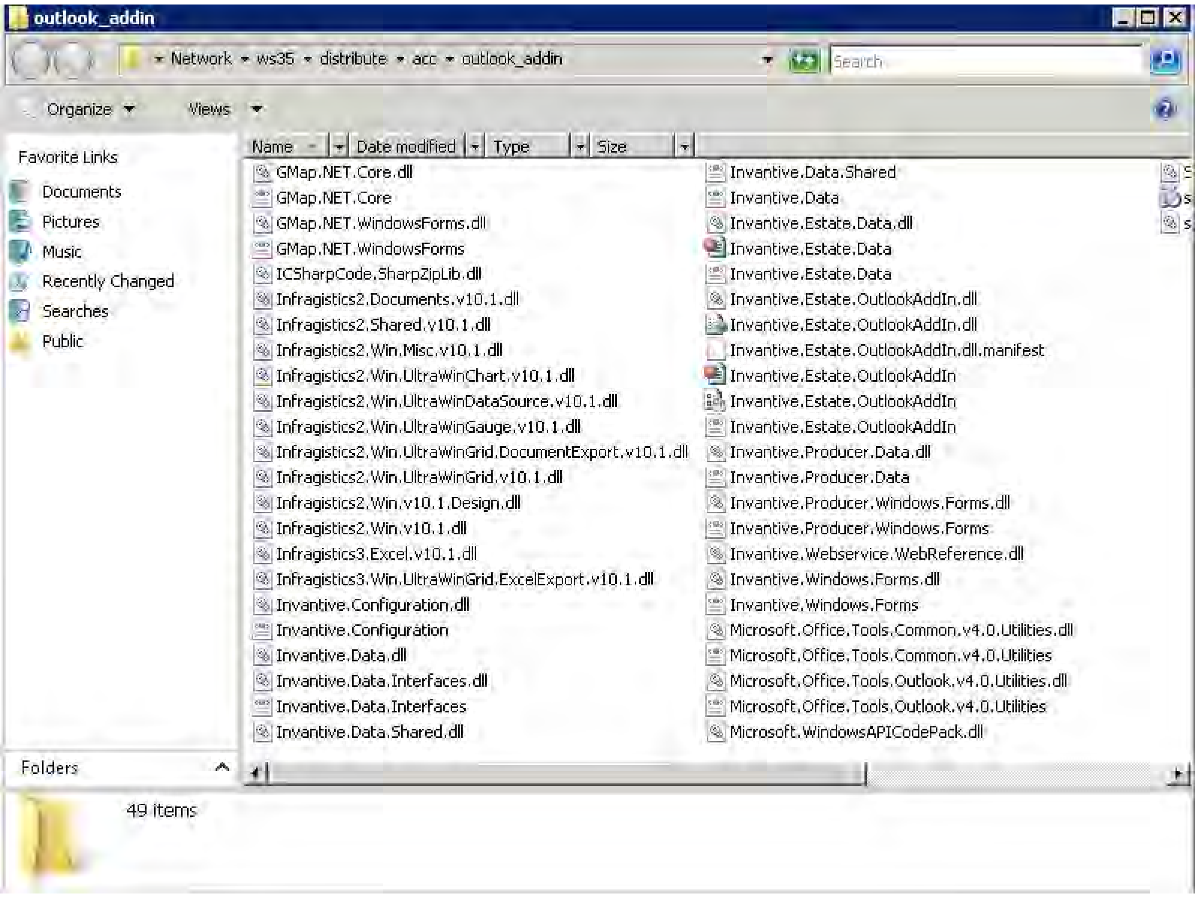

Invantive Estate | Instellingen
Algemeen
Geavanceerd
Debug
...
OK
Annuleren

Installatielocatie: \\ws35\distribute\acc\outlook_addin

Doelmap installatie: C:\Users\dvt_usr_jen_bubs\AppData\Local\Apps\2.0\Data\OM72991T.0VE\GV1JEPXG.9T7\inva..vsto_af349f2cc8d537a0_002a.0000_935b8595397203c4\Data

Configuratiebestand: C:\Users\dvt_usr_jen_bubs\AppData\Local\Apps\2.0\Data\OM72991T.0VE\GV1JEPXG.9T7\inva..vsto_af349f2cc8d537a0_002a.0000_935b8595397203c4\Data\12.0.6550.5003\user.config

By the button ... Select to open the next screen.


outlook_addin
Network ▸ ws35 ▸ distribute ▸ acc ▸ outlook_addin
Search
Organize
Views
Favorite Links
Documents
Pictures
Music
Recently Changed
Searches
Public
Folders
Name
Date modified
Type
Size
49 items

GMap.NET.Core.dll
GMap.NET.Core
GMap.NET.WindowsForms.dll
GMap.NET.WindowsForms
ICSharpCode.SharpZipLib.dll
Infragistics2.Documents.v10.1.dll
Infragistics2.Shared.v10.1.dll
Infragistics2.Win.Misc.v10.1.dll
Infragistics2.Win.UltraWinChart.v10.1.dll
Infragistics2.Win.UltraWinDataSource.v10.1.dll
Infragistics2.Win.UltraWinGauge.v10.1.dll
Infragistics2.Win.UltraWinGrid.DocumentExport.v10.1.dll
Infragistics2.Win.UltraWinGrid.v10.1.dll
Infragistics2.Win.v10.1.Design.dll
Infragistics2.Win.v10.1.dll
Infragistics3.Excel.v10.1.dll
Infragistics3.Win.UltraWinGrid.ExcelExport.v10.1.dll
Invantive.Configuration.dll
Invantive.Configuration
Invantive.Data.dll
Invantive.Data.Interfaces.dll
Invantive.Data.Interfaces
Invantive.Data.Shared.dll
Invantive.Data.Shared
Invantive.Data
Invantive.Estate.Data.dll
Invantive.Estate.Data
Invantive.Estate.Data
Invantive.Estate.OutlookAddIn.dll
Invantive.Estate.OutlookAddIn.dll
Invantive.Estate.OutlookAddIn.dll.manifest
Invantive.Estate.OutlookAddIn
Invantive.Estate.OutlookAddIn
Invantive.Estate.OutlookAddIn
Invantive.Producer.Data.dll
Invantive.Producer.Data
Invantive.Producer.Windows.Forms.dll
Invantive.Producer.Windows.Forms
Invantive.Webservice.WebReference.dll
Invantive.Windows.Forms.dll
Invantive.Windows.Forms
Microsoft.Office.Tools.Common.v4.0.Utilities.dll
Microsoft.Office.Tools.Common.v4.0.Utilities
Microsoft.Office.Tools.Outlook.v4.0.Utilities.dll
Microsoft.Office.Tools.Outlook.v4.0.Utilities
Microsoft.WindowsAPICodePack.dll

In this screen you can select the desired folder and therafter ???? Keys.

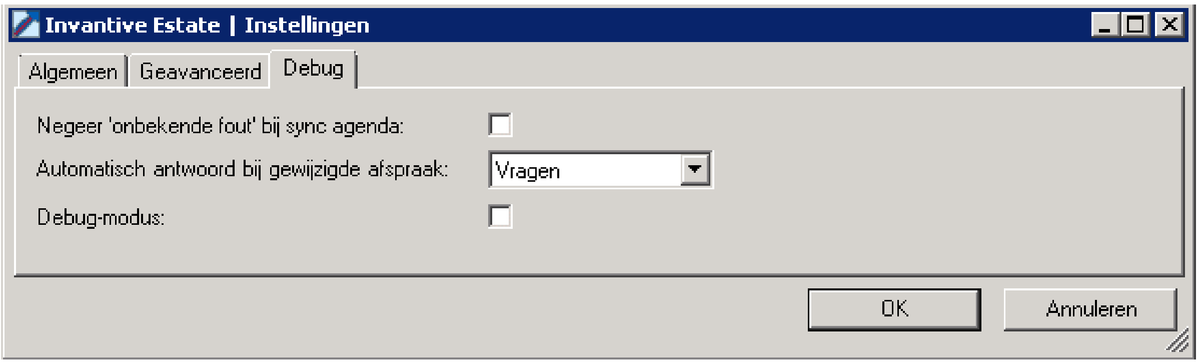
The meaning of the input fields in the tab page is:

Installation location	The location w here the files of the program are installed.
Target directory	The location of the target directory.

Configuration File	The location of the configuration file.

1.3.4.3 Debug

In this tab page you can .... .



Negeer 'onbekende fout' bij sync agenda: ☐

Automatisch antwoord bij gewijzigde afspraak: Vragen

Debug-modus: ☐

The meaning of the entry fields is:

Ignore 'unfamiliar' error at sync agenda	If the check box is checked an error while synchronizing the agenda is ignored.
AutoReply with a changed appointment	In case of an appointment in the agenda being changed
Debug mode	If the check box is being checked

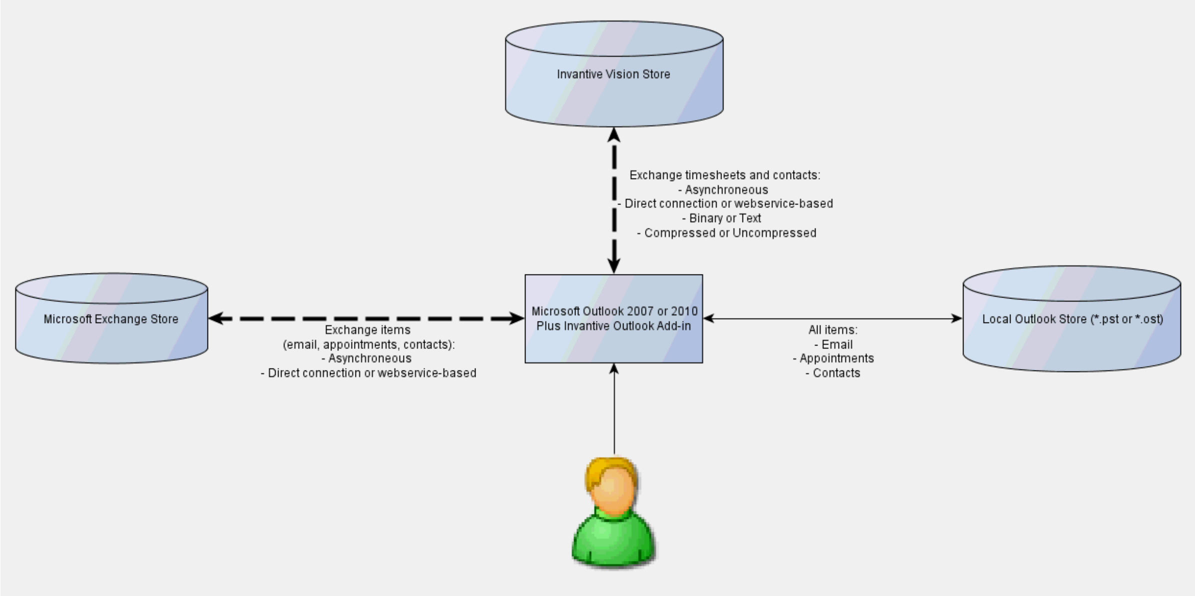
1.3.5 Integration Outlook with Microsoft Exchange

The Invantive Estate Outlook Add-in can be used in combination with Microsoft Exchange. The advantages of this are:

- Administrative employees can register hours of other employees in Invantive Estate.
- Users have the same calendar and the same contacts on every PC.
- The data in Microsoft Outlook like the appointments on a local PC are easily recovered by restoring a link on a different PC using Microsoft Exchange. The internal codes of the appointments that are used for the link with Invantive Estate are preserved.

Because of these advantages the Invantive Estate Outlook Add-in is used in combination with Microsoft Exchange in most implementations.

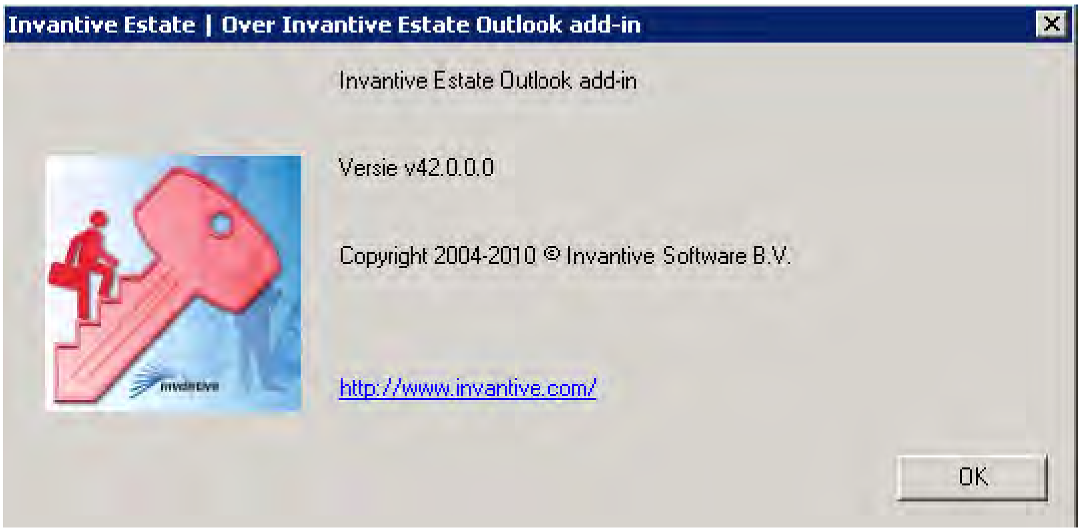
The structure is as follows:


Invantive Vision Store
Exchange timesheets and contacts:
- Asynchroneous
- Direct connection or webservice-based
- Binary or Text
- Compressed or Uncompressed
Microsoft Exchange Store
Exchange items
(email, appointments, contacts):
- Asynchroneous
- Direct connection or webservice-based
Microsoft Outlook 2007 or 2010
Plus Invantive Outlook Add-in
All items:
- Email
- Appointments
- Contacts
Local Outlook Store (*.pst or *.ost)

- The users enters the hours as normal by putting an appointment in his calendar, a work type and a characteristic.
- This appointment is automatically replicated under water in the Microsoft Exchange Store.
- The user uses 'Update Calendar' to enter the appointments as hours in Invantive Estate. At the same time hours in Invantive Estate that were not in the calendar of the user yet, are also included in his calendar.

1.3.6 Over Outlook Add-in

This menu option will open a window in which the version of Invantive Estate for Outlook, a copyright message and a link to the website of Invantive BV are shown.


Invantive Estate | Over Invantive Estate Outlook add-in

Invantive Estate Outlook add-in

Versie v42.0.0.0

Copyright 2004-2010 © Invantive Software B.V.

http://www.invantive.com/

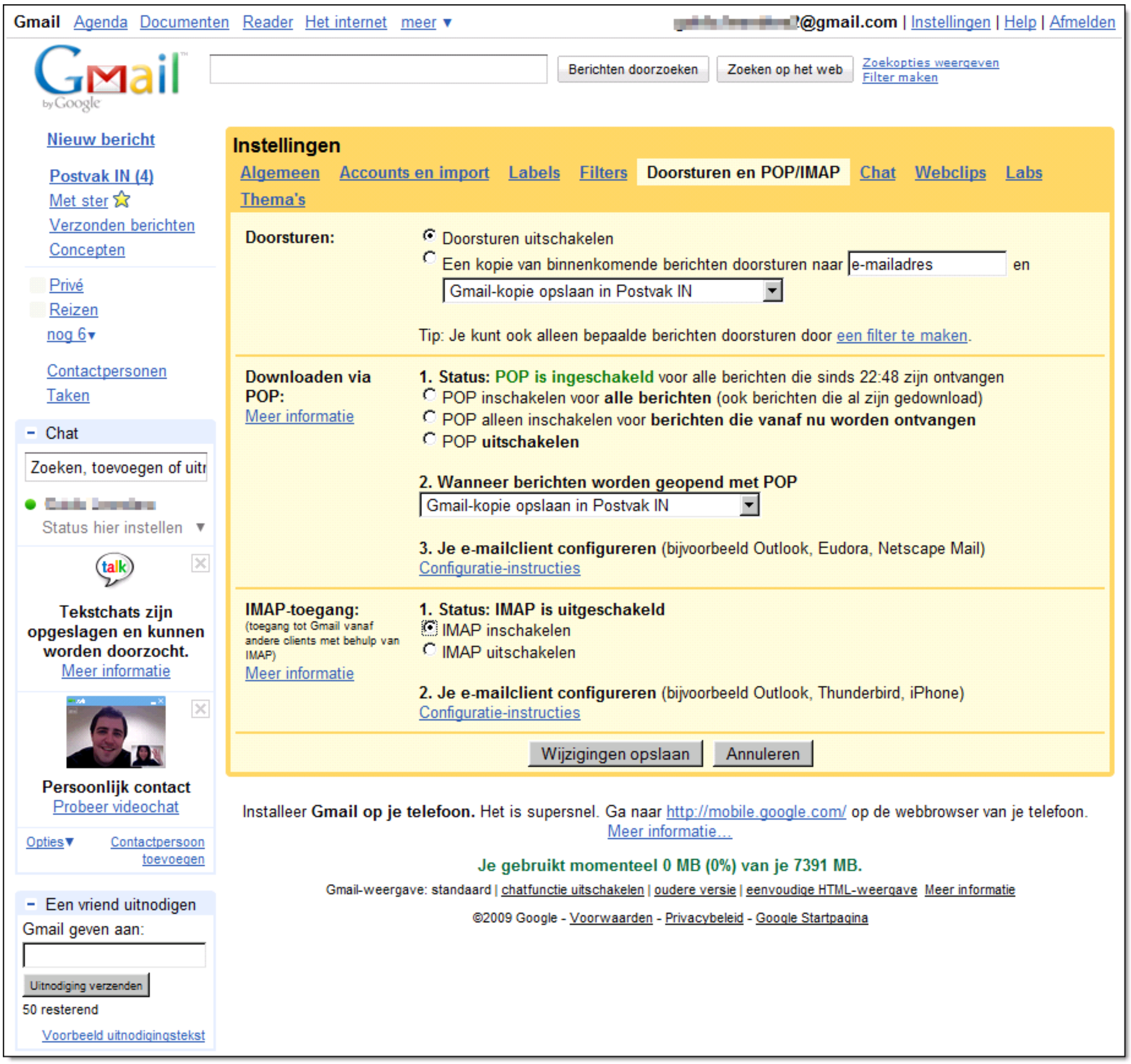
1.3.7 Integration Outlook with Gmail

The Outlook user interface also works with email which is not stored in Microsoft Exchange or local folders, but, for example, in Google GMail. This chapter describes the steps to combine the Outlook UI with Google Gmail.

Mail

Perform the following steps:

- Activate the IMAP connection of Google Gmail:



Gmail Agenda Documenten Reader Het internet meer ▾
[redacted]@gmail.com | Instellingen | Help | Afmelden
Gmail by Google
Berichten doorzoeken
Zoeken op het web
Zoekopties weergeven
Filter maken
Nieuw bericht
Postvak IN (4)
Met ster
Verzonden berichten
Concepten
Privé
Reizen
nog 6▾
Contactpersonen
Taken
Chat
Zoeken, toevoegen of uitn
[redacted]
Status hier instellen ▾
talk
Tekstchats zijn opgeslagen en kunnen worden doorzocht.
Meer informatie
Persoonlijk contact
Probeer videochat
Opties▾
Contactpersoon toevoegen
Een vriend uitnodigen
Gmail geven aan:
Uitnodiging verzenden
50 resterend
Voorbeeld uitnodigingstekst

Instellingen

Algemeen Accounts en import Labels Filters Doorsturen en POP/IMAP Chat Webclips Labs Thema's

Doorsturen:

● Doorsturen uitschakelen

○ Een kopie van binnenkomende berichten doorsturen naar e-mailadres en

Gmail-kopie opslaan in Postvak IN

Tip: Je kunt ook alleen bepaalde berichten doorsturen door een filter te maken.

Downloaden via POP:
Meer informatie

1. Status: **POP is ingeschakeld** voor alle berichten die sinds 22:48 zijn ontvangen

○ POP inschakelen voor **alle berichten** (ook berichten die al zijn gedownload)

○ POP alleen inschakelen voor **berichten die vanaf nu worden ontvangen**

○ POP **uitschakelen**

2. Wanneer berichten worden geopend met POP

Gmail-kopie opslaan in Postvak IN

3. Je e-mailclient configureren (bijvoorbeeld Outlook, Eudora, Netscape Mail)
Configuratie-instructies

IMAP-toegang:
(toegang tot Gmail vanaf andere clients met behulp van IMAP)
Meer informatie

1. Status: IMAP is uitgeschakeld

● IMAP inschakelen

○ IMAP uitschakelen

2. Je e-mailclient configureren (bijvoorbeeld Outlook, Thunderbird, iPhone)
Configuratie-instructies

Wijzigingen opslaan
Annuleren

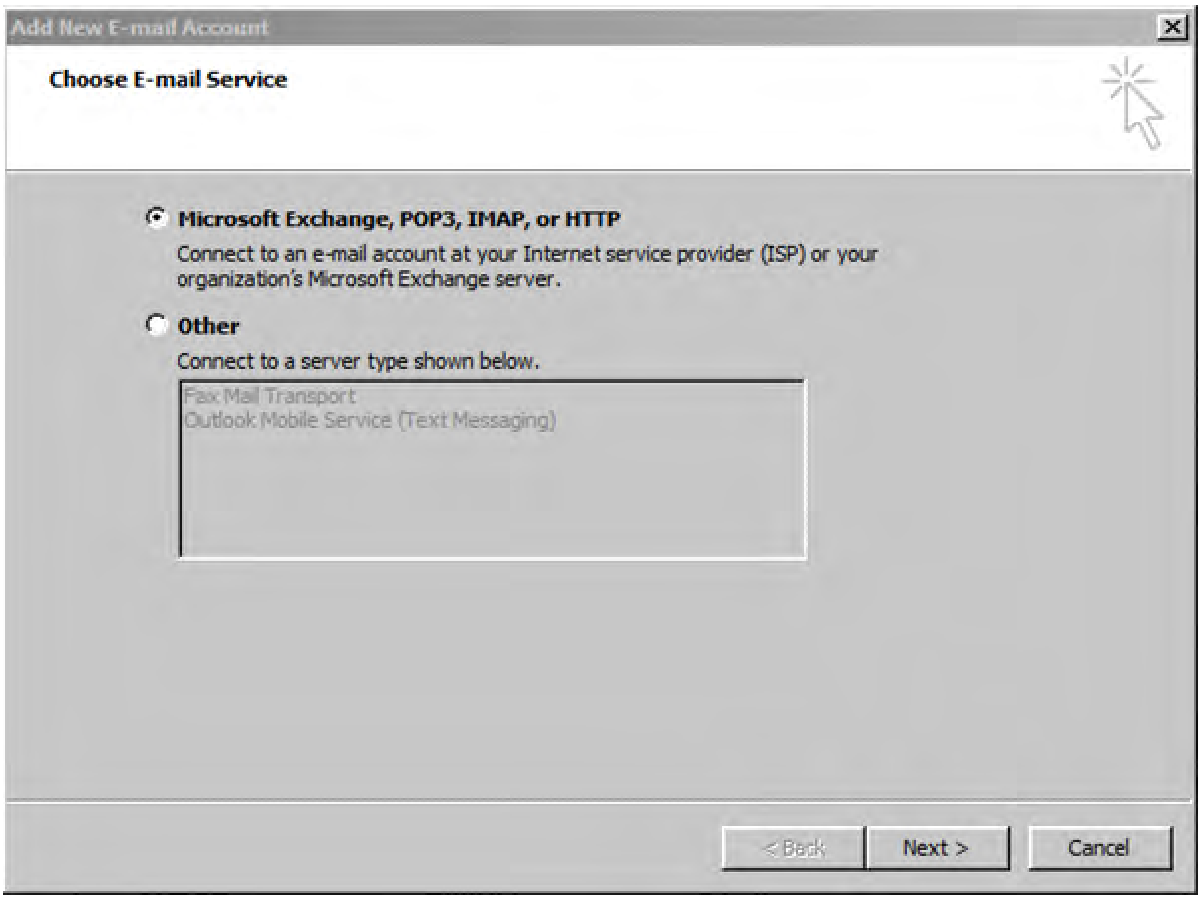
Installeer **Gmail op je telefoon.** Het is supersnel. Ga naar http://mobile.google.com/ op de webbrowser van je telefoon.
Meer informatie...

Je gebruikt momenteel 0 MB (0%) van je 7391 MB.

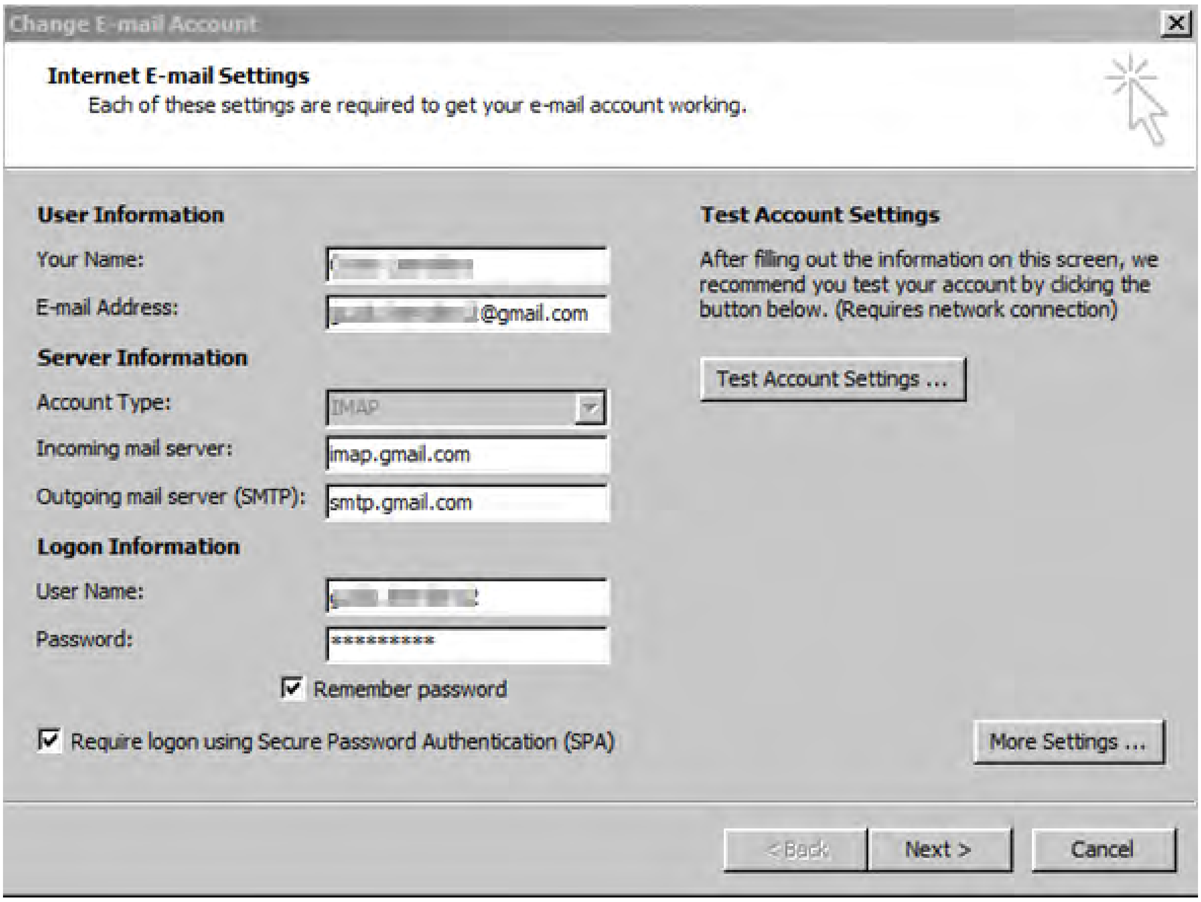
Gmail-weergave: standaard | chatfunctie uitschakelen | oudere versie | eenvoudige HTML-weergave Meer informatie

©2009 Google - Voorwaarden - Privacybeleid - Google Startpagina

- Create a new account in Microsoft Outlook:


Add New E-mail Account
Choose E-mail Service
● Microsoft Exchange, POP3, IMAP, or HTTP
Connect to an e-mail account at your Internet service provider (ISP) or your organization's Microsoft Exchange server.
○ Other
Connect to a server type shown below.
Fax Mail Transport
Outlook Mobile Service (Text Messaging)
< Back
Next >
Cancel

- And link it with Gmail via IMAP and SMTP protocol:


Change E-mail Account

Internet E-mail Settings
Each of these settings are required to get your e-mail account working.

User Information
Your Name: [redacted]
E-mail Address: [redacted]@gmail.com

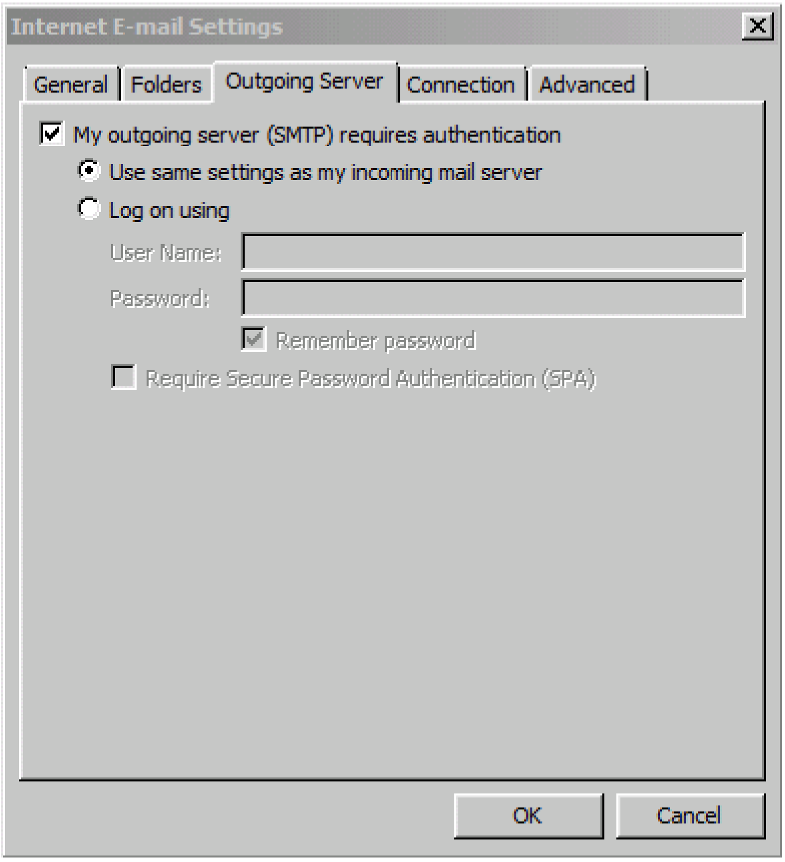
Server Information
Account Type: IMAP
Incoming mail server: imap.gmail.com
Outgoing mail server (SMTP): smtp.gmail.com

Logon Information
User Name: [redacted]
Password: **********
☑ Remember password
☑ Require logon using Secure Password Authentication (SPA)

Test Account Settings
After filling out the information on this screen, we recommend you test your account by clicking the button below. (Requires network connection)

Test Account Settings ...
More Settings ...
< Back
Next >
Cancel

- Make sure that sending emails is done in a secured way using SMTP:

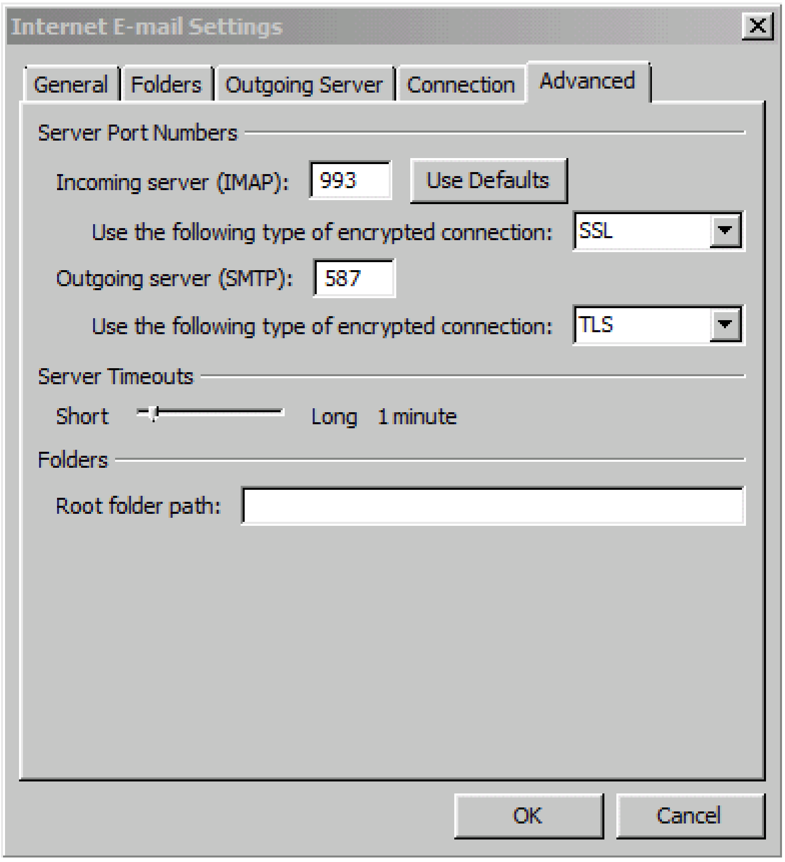

Internet E-mail Settings

General
Folders
Outgoing Server
Connection
Advanced

☑ My outgoing server (SMTP) requires authentication
● Use same settings as my incoming mail server
○ Log on using
User Name:
Password:
☑ Remember password
☐ Require Secure Password Authentication (SPA)

OK
Cancel

- And set the encryption and gates as follows:



Internet E-mail Settings

Server Port Numbers

Incoming server (IMAP): 993

Use the following type of encrypted connection: SSL

Outgoing server (SMTP): 587

Use the following type of encrypted connection: TLS

Server Timeouts

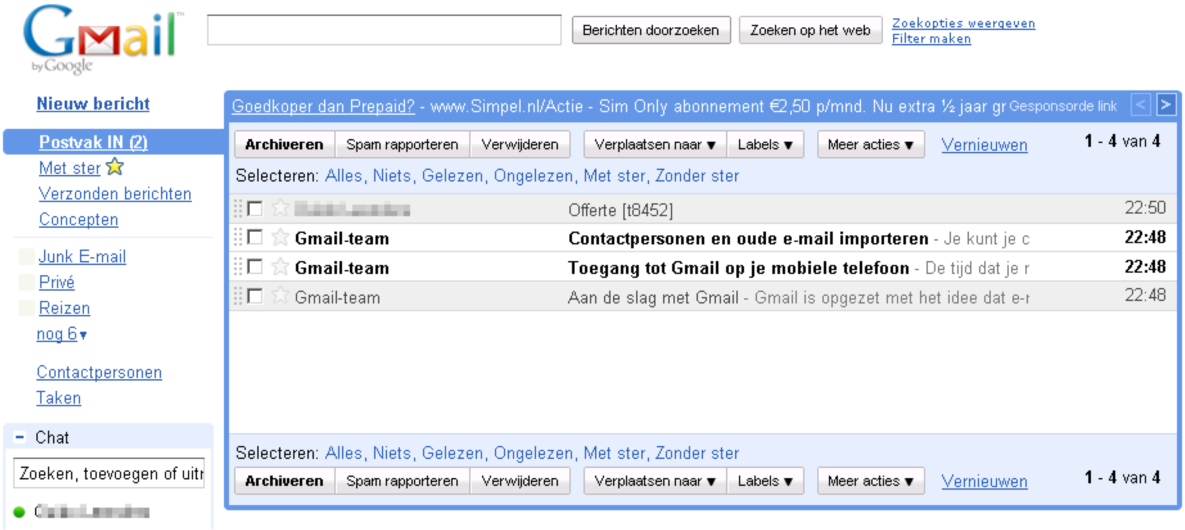
Short — Long 1 minute

Folders

Root folder path:

General
Folders
Outgoing Server
Connection
Advanced
Use Defaults
OK
Cancel

- The e-mail is visible in Google Gmail:



Goedkoper dan Prepaid? - www.Simpel.nl/Actie - Sim Only abonnement €2,50 p/mnd. Nu extra ½ jaar gr Gesponsorde link

Selecteren: Alles, Niets, Gelezen, Ongelezen, Met ster, Zonder ster

☐	[redacted]	Offerte [t8452]	22:50
☐	**Gmail-team**	**Contactpersonen en oude e-mail importeren** - Je kunt je c	**22:48**
☐	**Gmail-team**	**Toegang tot Gmail op je mobiele telefoon** - De tijd dat je r	**22:48**
☐	Gmail-team	Aan de slag met Gmail - Gmail is opgezet met het idee dat e-r	22:48

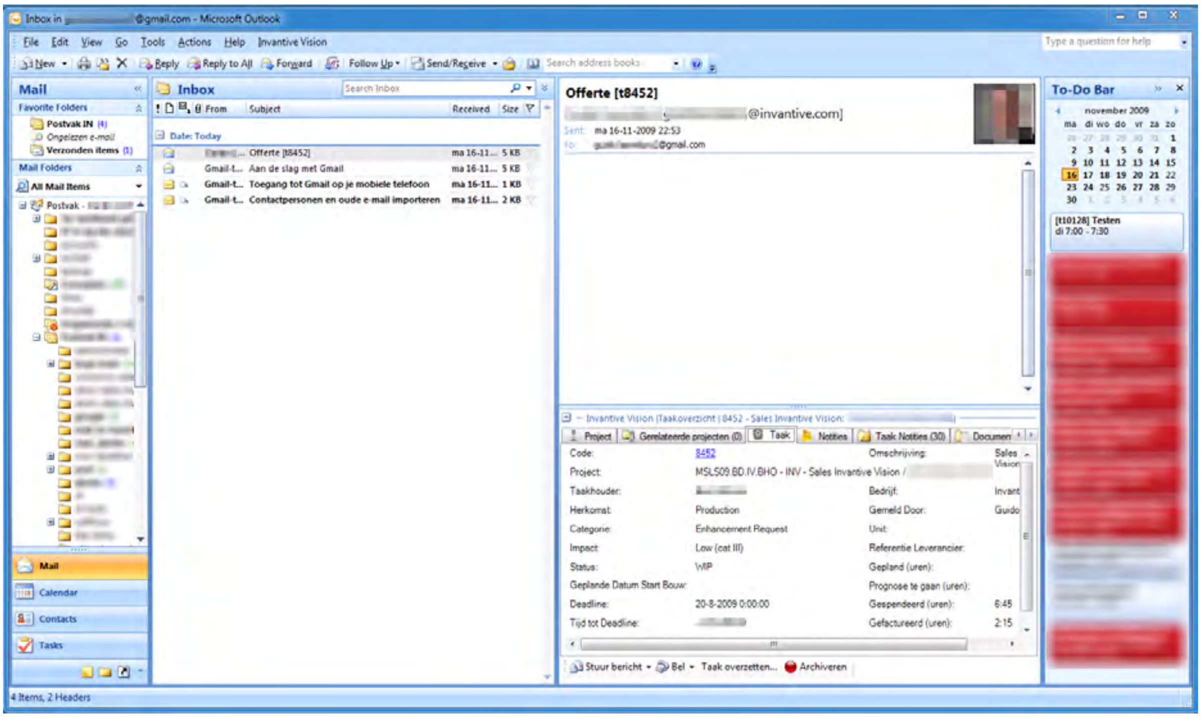
1 - 4 van 4

Zoeken, toevoegen of uitr

● [redacted]

Gmail by Google
Berichten doorzoeken
Zoeken op het web
Zoekopties weergeven
Filter maken
Nieuw bericht
Postvak IN (2)
Met ster
Verzonden berichten
Concepten
Junk E-mail
Privé
Reizen
nog 6
Contactpersonen
Taken
Chat
Archiveren
Spam rapporteren
Verwijderen
Verplaatsen naar
Labels
Meer acties
Vernieuwen

- The email in Google Gmail is also visible in Microsoft Outlook and its data from the system are shown:


Inbox in [redacted]@gmail.com - Microsoft Outlook
File
Edit
View
Go
Tools
Actions
Help
Invantive Vision
New
Reply
Reply to All
Forward
Follow Up
Send/Receive
Search address books
Type a question for help
Mail
Favorite Folders
Postvak IN (4)
Ongelezen e-mail
Verzonden items (1)
Mail Folders
All Mail Items
Postvak - [redacted]
Mail
Calendar
Contacts
Tasks
Inbox
Search Inbox
To-Do Bar
november 2009
4 Items, 2 Headers

From	Subject	Received	Size
[redacted]	Offerte [t8452]	ma 16-11...	5 KB
Gmail-t...	Aan de slag met Gmail	ma 16-11...	5 KB
Gmail-t...	Toegang tot Gmail op je mobiele telefoon	ma 16-11...	1 KB
Gmail-t...	Contactpersonen en oude e-mail importeren	ma 16-11...	2 KB

Offerte [t8452]
[redacted]@invantive.com]
Sent: ma 16-11-2009 22:53
To: [redacted]@gmail.com

Invantive Vision (Taakoverzicht | 8452 - Sales Invantive Vision: [redacted])

Code: 8452
Project: MSLS09.BD.IV.BHO - INV - Sales Invantive Vision / [redacted]
Taakhouder: [redacted]
Herkomst: Production
Categorie: Enhancement Request
Impact: Low (cat III)
Status: WIP
Geplande Datum Start Bouw:
Deadline: 20-8-2009 0:00:00
Tijd tot Deadline: [redacted]
Omschrijving: Sales Vision
Bedrijf: Invant
Gemeld Door: Guido
Unit:
Referentie Leverancier:
Gepland (uren):
Prognose te gaan (uren):
Gespendeerd (uren): 6:45
Gefactureerd (uren): 2:15

[t10128] Testen
di 7:00 - 7:30

Project
Gerelateerde projecten (0)
Taak
Notities
Taak Notities (30)
Documen
Stuur bericht
Bel
Taak overzetten...
Archiveren

Contacts and Calendar

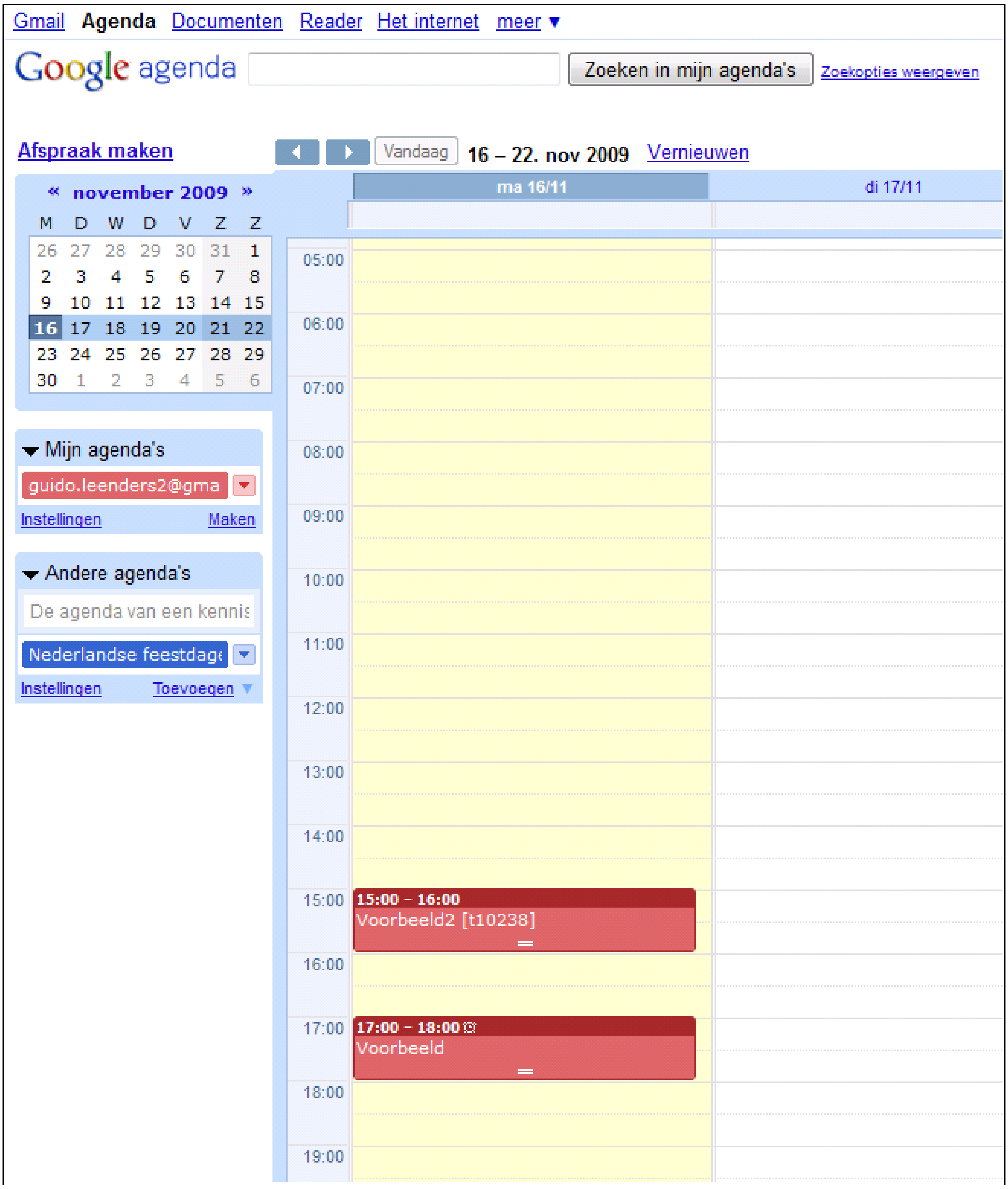
It is also possible to link to contacts and calendar.

The synchronization of Google Calendar Sync contacts can be used, but Kigoo offers more possibilities.

After installation as Administrator it may be necessary to use the user account to import the mailbox with

```
C:\Program Files (x86)\KiGoo\Configuration>importexporttool.exe
-import -pst KIGooConfig2007.pst -storename KiGoo
```

In Google Calendar, you can also use features, for example:

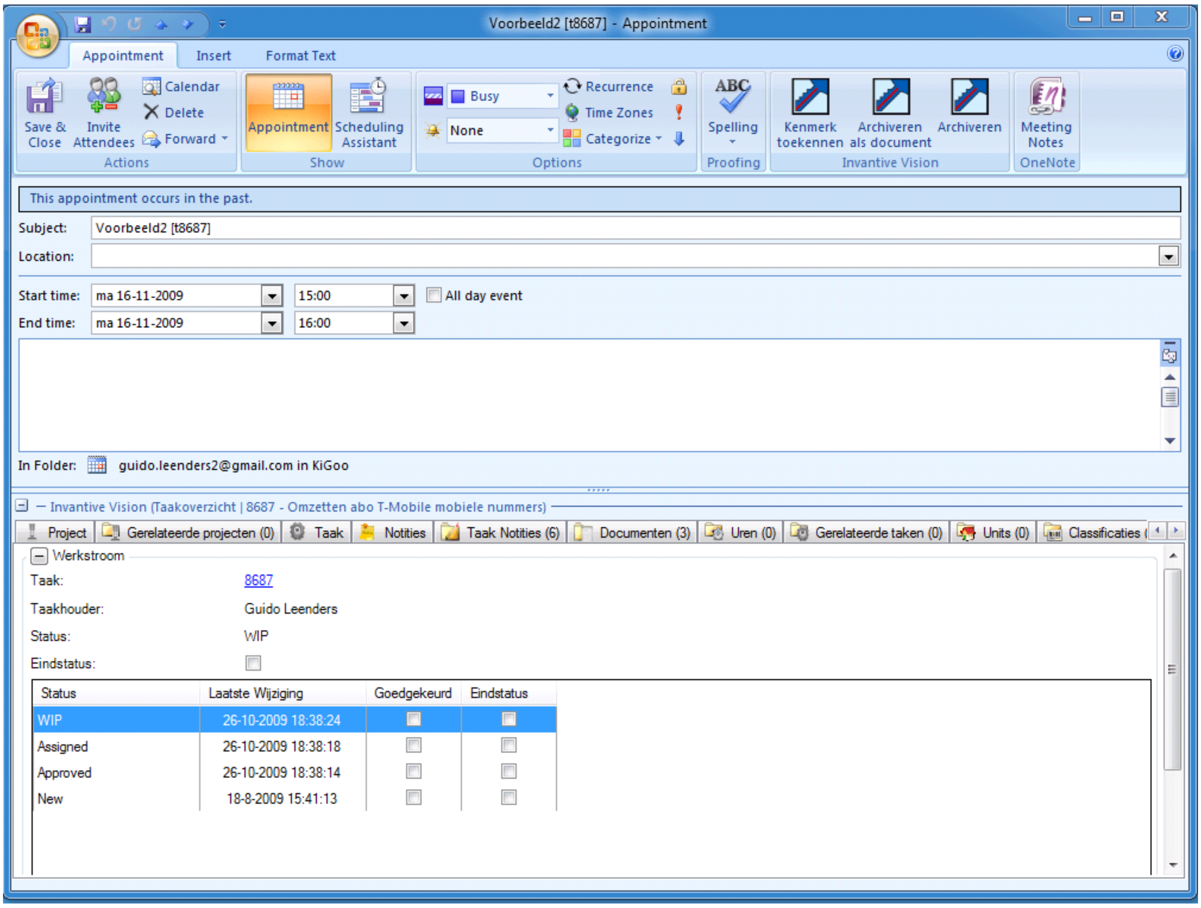

Gmail Agenda Documenten Reader Het internet meer ▼
Google agenda
Zoeken in mijn agenda's
Zoekopties weergeven
Afspraak maken
Vandaag
16 – 22. nov 2009
Vernieuwen
« november 2009 »
M D W D V Z Z
ma 16/11
di 17/11
05:00
06:00
07:00
08:00
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
Mijn agenda's
guido.leenders2@gma
Instellingen
Maken
Andere agenda's
De agenda van een kennis
Nederlandse feestdage
Instellingen
Toevoegen

M	D	W	D	V	Z	Z
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

15:00 – 16:00
Voorbeeld2 [t10238]

17:00 – 18:00
Voorbeeld

In Microsoft Outlook the appointment in Google Calendar appears with the data from the system:


Voorbeeld2 [t8687] - Appointment
Appointment
Insert
Format Text
Save & Close
Invite Attendees
Calendar
Delete
Forward
Actions
Appointment
Scheduling Assistant
Show
Busy
None
Recurrence
Time Zones
Categorize
Options
Spelling
Proofing
Kenmerk toekennen
Archiveren als document
Archiveren
Invantive Vision
Meeting Notes
OneNote

This appointment occurs in the past.

Subject: Voorbeeld2 [t8687]

Location:

Start time: ma 16-11-2009 15:00 ☐ All day event

End time: ma 16-11-2009 16:00

In Folder: guido.leenders2@gmail.com in KiGoo

Invantive Vision (Taakoverzicht | 8687 - Omzetten abo T-Mobile mobiele nummers)

Project
Gerelateerde projecten (0)
Taak
Notities
Taak Notities (6)
Documenten (3)
Uren (0)
Gerelateerde taken (0)
Units (0)
Classificaties (

Werkstroom

Taak: 8687

Taakhouder: Guido Leenders

Status: WIP

Eindstatus: ☐

Status	Laatste Wijziging	Goedgekeurd	Eindstatus
WIP	26-10-2009 18:38:24	☐	☐
Assigned	26-10-2009 18:38:18	☐	☐
Approved	26-10-2009 18:38:14	☐	☐
New	18-8-2009 15:41:13	☐	☐

1.3.8 Apple Macintosh

It is possible to Invantive Estate use Microsoft Outlook add-in on an Apple Macintosh (Mac) computer with the operating system Mac OS X and an Intel ® processor. Invantive Estate using the web works by certification on Safari.

1.3.8.1 Method

To Invantive Estate use Microsoft Outlook Add-In you need to install the virtualisation software Parallels Desktop or VMware Fusion. Then you need to install Microsoft Windows in the virtualisation software. It is advisable to install Windows XP, simply because this Windows version delivers the best performance when installed virtually. Microsoft Outlook with the Add-In runs smoothly and clean next to your other programs because of the virtualisation software. Several tests prove that Parallels Desktop works best on a Mac, see the comparison on Wikipedia: http://en.wikipedia.org/wiki/Comparison_of_VMware_Fusion_and_Parallels_Desktop.

The system requirements and license cost for Paralles Desktop® 6 for Mac are on the web page: http://www.parallels.com/eu/products/desktop/

The system requirements and license cost for VMware Fusion 3 are on the web page: http://www.vmware.com/products/fusion/overview.html.

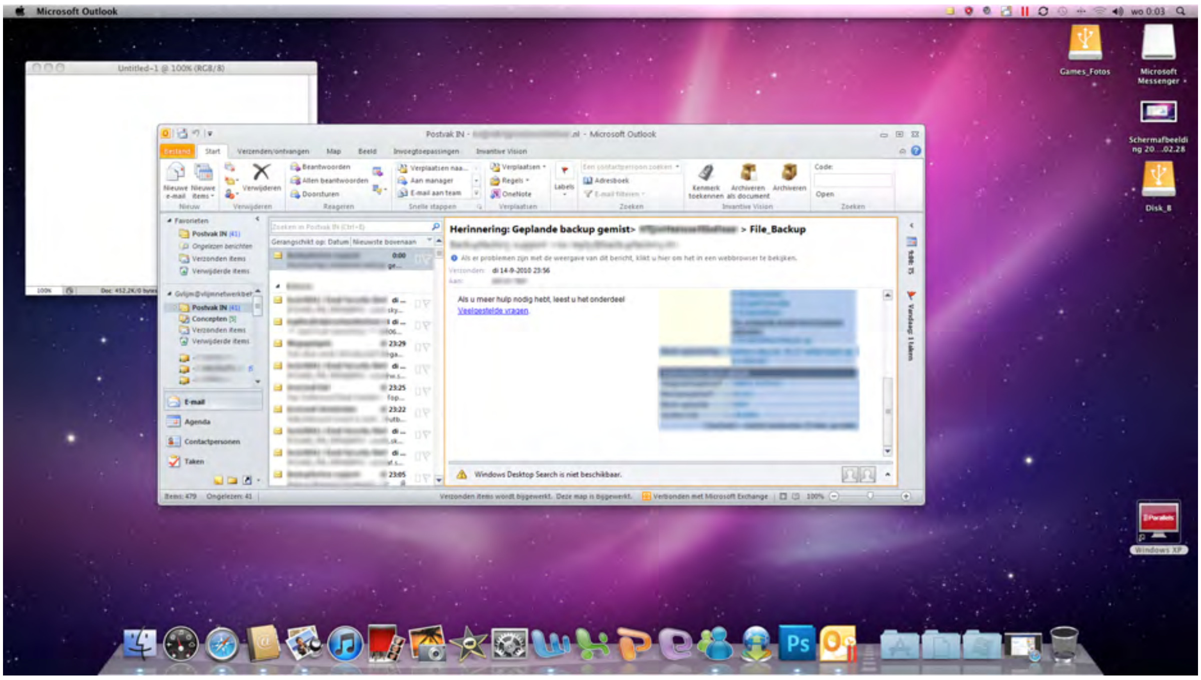
The purchase of the virtualisation software, Windows and Outlook brings extra license costs.

1.3.8.2 Installation Steps

Complete the steps below to Invantive Estate install Microsoft Outlook add-in on a Mac:

- Install Parallels Desktop or VMware Fusion on a mac.

- Enter a Windows installation disc or load an image on the Mac, preferably Windows XP Professional SP 3 or higher.
- Then install Microsoft Office 2007 or 2010 on Parallels Desktop or VMware Fusion.
- Complete the installation of Invantive Estate Microsoft Outlook add-in and make a connection.
- Vanaf nu is het mogelijk om Invantive Estate Microsoft Outlook add-in uit te voeren op een Mac, zie afbeelding hieronder.


Microsoft Outlook
Postvak IN - [redacted].nl - Microsoft Outlook
Bestand
Start
Verzenden/ontvangen
Map
Beeld
Invoegtoepassingen
Invantive Vision
Verplaatsen
Regels
OneNote
Labels
Adresboek
Kenmerk toekennen
Archiveren als document
Archiveren
Code:
Open
Zoeken
Games_Fotos
Microsoft Messenger
Disk_8
Windows XP

Herinnering: Geplande backup gemist> [redacted] > File_Backup

Als er problemen zijn met de weergave van dit bericht, klikt u hier om het in een webbrowser te bekijken.

Verzonden: di 14-9-2010 23:56

Als u meer hulp nodig hebt, leest u het onderdeel Veelgestelde vragen.

Windows Desktop Search is niet beschikbaar.

Verzonden items wordt bijgewerkt. Deze map is bijgewerkt. Verbonden met Microsoft Exchange 100%

1.3.9 Screens

Enter text here.

1.3.9.1 Edit screens

Enter text here.

Edit background job

Edit bank

Edit Person Skill

Edit budget

Edit budget movement

Edit draft invoice line

Edit contract

Edit contract budget

Edit contract process generation

Edit invoice

Invoice Lines

Edit related organization

Edit supplier

Edit warehouse

Edit organization

Organization Classifications

Persons

Edit person classification

Edit price list

Price List Lines

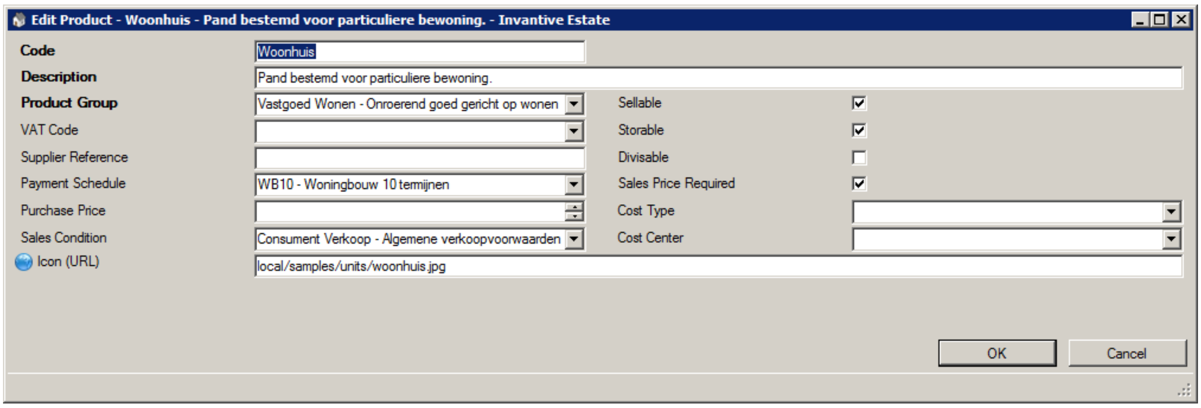
Edit process

Process Units

Process Skills

Product Properties

Products



Edit Product - Woonhuis - Pand bestemd voor particuliere bewoning. - Invantive Estate

Code	Woonhuis		
Description	Pand bestemd voor particuliere bewoning.		
Product Group	Vastgoed Wonen - Onroerend goed gericht op wonen	Sellable	☑
VAT Code		Storable	☑
Supplier Reference		Divisable	☐
Payment Schedule	WB10 - Woningbouw 10 termijnen	Sales Price Required	☑
Purchase Price		Cost Type	
Sales Condition	Consument Verkoop - Algemene verkoopvoorwaarden	Cost Center	
Icon (URL)	local/samples/units/woonhuis.jpg		

Edit project allocation

Edit project involvement

Projects

Edit interest

Edit unit

Edit unit property values

Edit unit type group

Edit unit type group poperty

Edit hour

Edit working schedule

Edit working schedule exception

bubs-outlook-web-page-searchterm-edit

bubs-outlook-unit-searchterm-edit

1.3.9.2 Detail windows

Enter text here.

Background process details

Banks

Enter text here.

Message details

Budgets

Enter text here.

Budget Movement per Budget details

Concept Invoice Lines

Enter text here.

Contract Budgets

Enter text here.

Contracts

Enter text here.

Contract process generation details

Details involved person

Details gerelateerd proces

Details related project

Details process classification

Details task note

Details Working Schedule exception

Document Details

Invoices

Enter text here.

Invoice Lines

Enter text here.

Edit related unit & add

Enter text here.

Cash Flow Projection details

Latest estimations

Enter text here.

Warehouses

Enter text here.

Revenue

Enter text here.

Orders

Enter text here.

Organization classification details

Organizations

Enter text here.

Persons

Enter text here.

Person Skill

Enter text here.

Person classification details

Price list details

Price List Line details

Process

Enter text here.

Process Unit

Enter text here.

Process Involvement details

Process classification details

Process Skills

Process Skill details

Product Standard Property details

Product details

Product property details

Products

Enter text here.

Product Groups

Enter text here.

Project

Enter text here.

Project allocation details

Project classification details

Project Involvements

Unit

Enter text here.

Hours

Enter text here.

Skill

Enter text here.

bubs-outlook-web-page-searchterm-details

1.3.9.3 List windows

Enter text here.

Background Processes list

Banks

Enter text here.

Messages

Enter text here.

Involved Units

Enter text here.

Involvements

Enter text here.

Budgets

Enter text here.

Budget Movements

Enter text here.

Classifications

Enter text here.

Classifications list

Concept Invoice Lines

Enter text here.

Contract Processes Generation

Contract Budgets

Enter text here.

Contracts

Enter text here.

Document Participation

Enter text here.

Documents

Enter text here.

Invoices

Enter text here.

Invoice Lines

Enter text here.

Related Organizations

Enter text here.

Related processes

Enter text here.

Related projects

Enter text here.

Related Units

Enter text here.

Qualified Persons list

Calls

Enter text here.

Job Parameter list

Cash Flow Projection Day Details list

Cash Flow Pojection Details list

Cash Flow Projections

Enter text here.

Latest estimations

Enter text here.

Warehouses

Enter text here.

Revenues

Enter text here.

Orders

Enter text here.

Organization classification list

Organization participation

Enter text here.

Organizations

Enter text here.

Persons

Enter text here.

Personal Skills

Enter text here.

Planning

Enter text here.

Price Lists

Price List Lines

Process Participation

Enter text here.

Process Units

Enter text here.

Process Skills

Enter text here.

Process Classification list

Process Notes

Enter text here.

Processes

Enter text here.

Processes involved with

Enter text here.

Product Standard Properties list

Product Properties list

Products

Enter text here.

Product group

Enter text here.

Project Allocations

Enter text here.

Project Involvements

Enter text here.

Project Classification list

Project Involvements list

Projects

Enter text here.

Involved projects

Enter text here.

Project Versions

Enter text here.

Recent items

Enter text here.

Unit Property Values

Enter text here.

Unit Transactions

Enter text here.

Units

Enter text here.

Hours

Enter text here.

Expectations

Enter text here.

Stock Levels

Enter text here.

Working Schedule list

Working Schedule exceptions list

Workflow

Enter text here.

bubs-outlook-web-page-searchterm-list

1.4 Invantive Estate for Windows

Using Invantive Estate for Windows you can work with Invantive Estate out of Microsoft Windows but without Microsoft Outlook.

1.5 Links

De beschikbare koppelingen worden hier beschreven.

1.5.1 Exact Online Interface

Invantive Estate is compatible with the accounting package Exact Online. The interface works in two directions:

- Concept invoices from Invantive Estate can be imported in Exact Online and from there they may be changed and invoiced.
- Products, Organizations, Projects and Cost center from Invantive Estate can be read in Exact Online.
- Final invoices and other general ledger mutations from Exact Online can be imported into Invantive Estate.

You can fill several Exact Online administrations with the same list of products, organizations, projects and cost centers.

1.5.1.1 Installation

Execute these steps to install a link with Exact Online.

Additional Business Rules

Checking Length Short Project Code

Exact Online does not accept project codes (cost units) with more than 8 positions. The short code for a project is passed to Exact Online. Install the following additional business rule to make sure that the short code meets the requirements of Exact Online:

View	bubs_projecten_v
Action	Mutation
Group	Checks for Exact Online

Expression

```
--
-- $Header: http://svn.invantive.com/repos/p104/trunk/help/nl/manual/Topics/bubs-installatie-exact-online-aanvullende-bedrijfsregels.xml 19891 2012-10-09 13:23:03Z gle3 $
-- exactonline-check-1
--
if :action_moment = 'B'
then
  if :last.pjt_code_kort is null and length(:last.pjt_code) <= 8
```

View	bubs_projecten_v

```
  then
    :last.pjt_code_kort := :last.pjt_code;
  end if;
  --
  if :last.pjt_code_kort is null
  then
    bubs_error_handler.handle_error
    ( '{res:bubs_eol_required_short_code?' || bubs#vertalingen.escape_parameter(:last.pjt_code) || '}'
    );
  end if;
  --
  if length(:last.pjt_code_kort) > 8
  then
    bubs_error_handler.handle_error
    ( '{res:bubs_eol_project_short_code_too_long?' || bubs#vertalingen.escape_parameter(:last.pjt_code) || '}'
    );
  end if;
end if;
```

Explanation	Check if the short project code is filled and has a maximum of 8 positions. Exact Online does not accept project code longer than 8 positions.

Checks Contacts

Every customer and supplier must have a contact person, that contact person must be linked to one organisation only, and a first and last name must be specified. Install the next additional business rule to check this:

View	bubs_leveranciers_v
Action	Mutation
Group	Checks for Exact Online

Expression

```
--
-- $Header: http://svn.invantive.com/repos/p104/trunk/help/nl/manual/Topics/bubs-installatie-exact-online-aanvullende-bedrijfsregels.xml 19891 2012-10-09 13:23:03Z gle3 $
-- exactonline-check-2
--
declare
  l_cnt_usages        pls_integer;
  l_gbr_cp_achternaam bubs_gebruikers_v.gbr_achternaam%type;
  l_gbr_cp_voornaam   bubs_gebruikers_v.gbr_voornaam%type;
begin
  if :action_moment = 'B'
     and
     ( :new.lvr_klant_vlag = 'Y'
       or
       :new.lvr_opdrachtnemer_vlag = 'Y'
     )
  then
    --
    -- Check that a primary contactperson is available.
```

View	bubs_leveranciers_v

```
    --
    if :last.gbr_cp_naam is null
    then
      bubs_error_handler.handle_error
      ( '{res:bubs_eol_prim_cp_required?'
        || bubs#vertalingen.escape_parameter(:last.lvr_code)
        || '&'
        || bubs#vertalingen.escape_parameter(:last.lvr_naam)
        || '}'
      );
    else
      select gbr_cp.gbr_achternaam
      ,      gbr_cp.gbr_voornaam
      into   l_gbr_cp_achternaam
      ,      l_gbr_cp_voornaam
      from   bubs_gebruikers_v gbr_cp
      where  1=1
      and    gbr_cp.gbr_naam = :last.gbr_cp_naam
      ;
      if ( l_gbr_cp_achternaam is null and l_gbr_cp_voornaam is null )
      then
        bubs_error_handler.handle_error
        ( '{res:bubs_eol_prim_cp_required_namepart?'
          || bubs#vertalingen.escape_parameter(:last.lvr_code)
          || '&'
          || bubs#vertalingen.escape_parameter(:last.lvr_naam)
          || '&'
          || bubs#vertalingen.escape_parameter(:last.gbr_cp_naam)
          || '}'
        );
      else
        --
        -- Check that a person is only available on at most one organisation.
        --
        select coalesce(count(*), 0) cnt
        into   l_cnt_usages
        from   bubs_leveranciers_v lvr
        where  1=1
        and    lvr.gbr_cp_naam = :last.gbr_cp_naam
        and    lvr.lvr_id      <> :last.lvr_id
        ;
        if l_cnt_usages >= 1
        then
          bubs_error_handler.handle_error
          ( '{res:bubs_eol_prim_cp_unique?'
```

View	bubs_leveranciers_v

```
            || bubs#vertalingen.escape_parameter(:last.gbr_cp_naam)
            || '}'
          );
        end if;
      end if;
    end if;
  end if;
end;
```

Explanation	Make sure that a contact is entered for clients and contractors and it is not used more than one time.

Checks Persons

Each person which writes hours can lead to invoicing in Exact Online. The cost center is based on unique initials. Therefore the unique initials must always be filled in:

View	bubs_gebruikers_v
Action	Mutation
Group	Checks for Exact Online

Expression

```
--
-- $Header: http://svn.invantive.com/repos/p104/trunk/help/
nl/manual/Topics/bubs-installatie-exact-online-aanvullende-
bedrijfsregels.xml 19891 2012-10-09 13:23:03Z gle3 $
-- exactonline-check-3
--
if :action_moment = 'B'
   and
   :last.gbr_initialen is null
   and
   :last.gbr_tijdschrijver_vlag = 'Y'
then
  bubs_error_handler.handle_error
  ( '{res:bubs_eol_initials_required?'
    || bubs#vertalingen.escape_parameter(:last.gbr_naam)
    || '}'
  );
end if;
```

Explanation	Make sure that a contact is entered for clients and contractors and it is not used more than one time.

Certificate Exact Online Web Service

For data downloading and uploading via the Exact Online web service it is required to notify Tomcat of the certificate of Exact Online. The easiest way is to use the program InstallCert. Perform the following steps:

- Start InstallCert with the name of the https host of Exact Online:

```
C:\> java InstallCert start.exactonline.nl

InstallCert.main()C:\Program Files\Java\jre6
Loading KeyStore C:\Program Files\Java\jre6\lib\security\cacerts...
```

```
Opening connection to start.exactonline.nl:443...
Starting SSL handshake...

No errors, certificate is already trusted

Server sent 2 certificate(s):

 1 Subject CN=start.exactonline.nl, OU=Terms of use at www.veri-
sign.com/rpa (c)0
5, OU=System Support, O=Exact Holding N.V., L=Delft, ST=Zuid
Holland, C=NL, SERI
ALNUMBER="27234422  0000", OID.2.5.4.15="V1.0, Clause 5.(b)",
OID.1.3.6.1.4.1.31
1.60.2.1.3=NL
   Issuer  CN=VeriSign Class 3 Extended Validation SSL SGC CA,
OU=Terms of use a
t https://www.verisign.com/rpa (c)06, OU=VeriSign Trust Network,
O="VeriSign, In
c.", C=US
   sha1    ce 97 17 5d 25 ab 40 75 25 72 c9 dc 58 ca b5 3d 0c 98
cb c0
   md5     d7 5e 76 79 b0 68 0b 24 5f 00 51 2c 40 7e e0 9d

 2 Subject CN=VeriSign Class 3 Extended Validation SSL SGC CA,
OU=Terms of use a
t https://www.verisign.com/rpa (c)06, OU=VeriSign Trust Network,
O="VeriSign, In
c.", C=US
   Issuer  CN=VeriSign Class 3 Public Primary Certification Aut-
hority - G5, OU="
(c) 2006 VeriSign, Inc. - For authorized use only", OU=VeriSign
Trust Network, O
="VeriSign, Inc.", C=US
   sha1    b1 80 39 89 98 31 f1 52 61 46 67 cf 23 ff ce a2 b0 e7
3d ab
   md5     ca d5 a7 99 dd 90 93 60 b8 7c 31 9b de d5 f3 2f

Enter certificate to add to trusted keystore or 'q' to quit: [1]
1

[
[
  Version: V3
  Subject: CN=start.exactonline.nl, OU=Terms of use at www.veri-
sign.com/rpa (c)0
5, OU=System Support, O=Exact Holding N.V., L=Delft, ST=Zuid
Holland, C=NL, SERI
ALNUMBER="27234422  0000", OID.2.5.4.15="V1.0, Clause 5.(b)",
OID.1.3.6.1.4.1.31
1.60.2.1.3=NL
  Signature Algorithm: SHA1withRSA, OID = 1.2.840.113549.1.1.5

  Key:  Sun RSA public key, 2048 bits
  modulus:
2296183511947557931107323286712919073630556997595052327401976220
86148
7942755852667103461674520346229304662939050724195340973696544309
359329266107075
9493634217785280395732419414163911175289801936588054643274350529
9645801785250252
9514977304585483686116304712825294103837852988404459390561822542
0399364724195266
4342157098057959282717095008829034852645294632476008959817055418
8540975803412342
7358418557796620312985017487711474810938837242789207124672256718
7468748001030296
7064622068096557679259084200367007336511520352069027121274372670
6395785808073220
2402485720912804844263156374497815538965533392113776678233447403
8613
  public exponent: 65537
  Validity: [From: Mon Apr 27 02:00:00 CEST 2009,
               To: Sun Jun 27 01:59:59 CEST 2010]
  Issuer: CN=VeriSign Class 3 Extended Validation SSL SGC CA,
OU=Terms of use at
 https://www.verisign.com/rpa (c)06, OU=VeriSign Trust Network,
O="VeriSign, Inc
.", C=US
  SerialNumber: [    0a35a4ef 6cbf483d 506e94fb 52a9b3bf]

Certificate Extensions: 8
[1]: ObjectId: 1.3.6.1.5.5.7.1.12 Criticality=false
Extension unknown: DER encoded OCTET string =
0000: 04 62 30 60 A1 5E A0 5C   30 5A 30 58 30 56 16 09  .b0`.^.
\0Z0X0V..
0010: 69 6D 61 67 65 2F 67 69   66 30 21 30 1F 30 07 06  image/
gif0!0.0..
0020: 05 2B 0E 03 02 1A 04 14   4B 6B B9 28 96 06 0C BB  .
+......Kk.(....
0030: D0 52 38 9B 29 AC 4B 07   8B 21 05 18 30 26 16 24
.R8.).K..!..0&.$
0040: 68 74 74 70 3A 2F 2F 6C   6F 67 6F 2E 76 65 72 69  http://
logo.veri
0050: 73 69 67 6E 2E 63 6F 6D   2F 76 73 6C 6F 67 6F 31
sign.com/vslogo1
0060: 2E 67 69 66                                        .gif


[2]: ObjectId: 2.5.29.35 Criticality=false
AuthorityKeyIdentifier [
KeyIdentifier [
0000: 4E 43 C8 1D 76 EF 37 53   7A 4F F2 58 6F 94 F3 38
NC..v.7SzO.Xo..8
0010: E2 D5 BD DF                                        ....
]

]
```

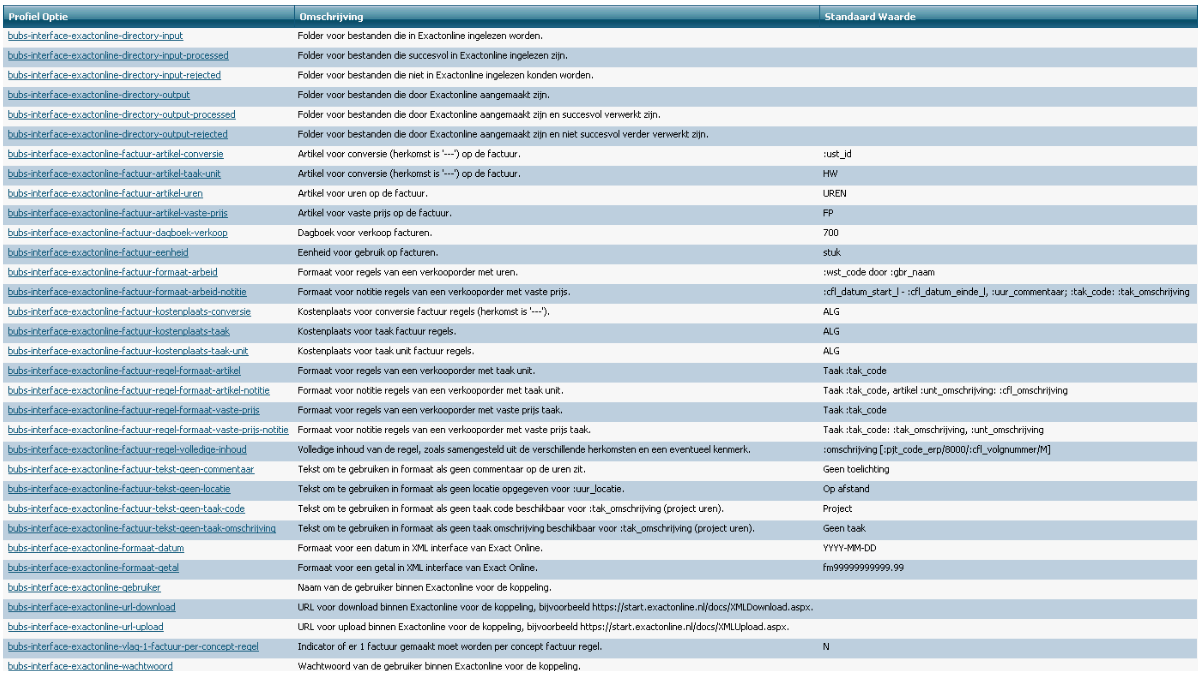
```
[3]: ObjectId: 2.5.29.31 Criticality=false
CRLDistributionPoints [
  [DistributionPoint:
     [URIName: http://EVIntl-crl.verisign.com/EVIntl2006.crl]
]]

[4]: ObjectId: 2.5.29.37 Criticality=false
ExtendedKeyUsages [
  serverAuth
  clientAuth
  2.16.840.1.113730.4.1
  1.3.6.1.4.1.311.10.3.3
]

[5]: ObjectId: 2.5.29.32 Criticality=false
CertificatePolicies [
  [CertificatePolicyId: [2.16.840.1.113733.1.7.23.6]
[PolicyQualifierInfo: [
  qualifierID: 1.3.6.1.5.5.7.2.1
  qualifier: 0000: 16 1C 68 74 74 70 73 3A   2F 2F 77 77 77 2E
76 65  ..https://
www.ve
0010: 72 69 73 69 67 6E 2E 63   6F 6D 2F 63 70 73        ri-
sign.com/cps

]]  ]
]

[6]: ObjectId: 2.5.29.15 Criticality=false
KeyUsage [
  DigitalSignature
  Key_Encipherment
]

[7]: ObjectId: 1.3.6.1.5.5.7.1.1 Criticality=false
AuthorityInfoAccess [
  [
   accessMethod: 1.3.6.1.5.5.7.48.1
   accessLocation: URIName: http://ocsp.verisign.com,
   accessMethod: 1.3.6.1.5.5.7.48.2
   accessLocation: URIName: http://EVIntl-aia.verisign.com/
EVIntl2006.cer]
]

[8]: ObjectId: 2.5.29.19 Criticality=false
BasicConstraints:[
  CA:false
  PathLen: undefined
]

]
  Algorithm: [SHA1withRSA]
  Signature:
0000: 01 98 53 52 B1 81 D1 8A   8C A8 F9 8B 5E BA 03 1F
..SR........^...
```

```
0010: CA 21 75 64 DC 2D 6B 98   4E 78 B4 97 A7 87 72 BA  .!ud.-
k.Nx....r.
0020: 55 46 0D 4E 8E 3E 9A E7   50 A5 8C 38 9F 3E 49 8D
UF.N.>..P..8.>I.
0030: 67 3F 97 F3 66 3F 02 3B   DF 85 6F A2 28 0C 6E D4  g?..f?
.;..o.(.n.
0040: 4A 6F E5 DF 15 67 7F D9   72 FD 7F 31 84 72 86 4E
Jo...g..r..1.r.N
0050: FE 7B B6 AC 94 50 2F 07   7C 68 66 16 D3 86 31 04  .....P/
..hf...1.
0060: 3F BD F3 9F 3E 96 F2 93   92 71 D1 3D 63 08 C8 DC  ?
...>....q.=c...
0070: 7B 9C 33 FE 52 42 73 47   4B E3 57 F3 88 C4 D3 8D
..3.RBsGK.W.....
0080: 2C 3E 8D DB 56 4D 2C D7   3A DA D2 D8 12 4A 47 F7
,>..VM,.:....JG.
0090: EF 13 16 D6 1C DA 7D 08   76 46 02 C0 DA F2 88 DB
........vF......
00A0: 7D 23 9B FB 0D 9F FA A8   DC 57 71 7C A8 00 C8 2F
.#.......Wq..../
00B0: 42 3E 35 E1 69 83 76 6A   E8 FF 7A A1 39 77 96 1A
B>5.i.vj..z.9w..
00C0: 57 AA BA C7 D3 68 9E D4   1F 8E 3A 42 05 5B E6 4F
W....h....:B.[.O
00D0: 78 FB 10 D1 FE 81 E9 96   A7 21 F9 BC 02 F6 55 9F
x........!....U.
00E0: 88 58 AE C9 43 7F D2 E8   50 50 97 DA DF 67 B6 AE
.X..C...PP...g..
00F0: 2C 16 84 4F 82 17 61 18   35 2F CB E9 9C D6 77 11
,..O..a.5/....w.

]

Added certificate to keystore C:\Program Files\Java\jre6\lib\se-
curity\cacerts us
ing alias 'start.exactonline.nl-1'
```

Installation Profile options

Profile Options

Configure the profile options with in the code the word 'exactonline' as described at the concerning component:



Profiel Optie	Omschrijving	Standaard Waarde
bubs-interface-exactonline-directory-input	Folder voor bestanden die in Exactonline ingelezen worden.	
bubs-interface-exactonline-directory-input-processed	Folder voor bestanden die succesvol in Exactonline ingelezen zijn.	
bubs-interface-exactonline-directory-input-rejected	Folder voor bestanden die niet in Exactonline ingelezen konden worden.	
bubs-interface-exactonline-directory-output	Folder voor bestanden die door Exactonline aangemaakt zijn.	
bubs-interface-exactonline-directory-output-processed	Folder voor bestanden die door Exactonline aangemaakt zijn en succesvol verwerkt zijn.	
bubs-interface-exactonline-directory-output-rejected	Folder voor bestanden die door Exactonline aangemaakt zijn en niet succesvol verder verwerkt zijn.	
bubs-interface-exactonline-factuur-artikel-conversie	Artikel voor conversie (herkomst is '---') op de factuur.	:ust_id
bubs-interface-exactonline-factuur-artikel-taak-unit	Artikel voor conversie (herkomst is '---') op de factuur.	HW
bubs-interface-exactonline-factuur-artikel-uren	Artikel voor uren op de factuur.	UREN
bubs-interface-exactonline-factuur-artikel-vaste-prijs	Artikel voor vaste prijs op de factuur.	FP
bubs-interface-exactonline-factuur-dagboek-verkoop	Dagboek voor verkoop facturen.	700
bubs-interface-exactonline-factuur-eenheid	Eenheid voor gebruik op facturen.	stuk
bubs-interface-exactonline-factuur-formaat-arbeid	Formaat voor regels van een verkooporder met uren.	:wst_code door :gbr_naam
bubs-interface-exactonline-factuur-formaat-arbeid-notitie	Formaat voor notitie regels van een verkooporder met vaste prijs.	:cfl_datum_start_l - :cfl_datum_einde_l, :uur_commentaar; :tak_code: :tak_omschrijving
bubs-interface-exactonline-factuur-kostenplaats-conversie	Kostenplaats voor conversie factuur regels (herkomst is '---').	ALG
bubs-interface-exactonline-factuur-kostenplaats-taak	Kostenplaats voor taak factuur regels.	ALG
bubs-interface-exactonline-factuur-kostenplaats-taak-unit	Kostenplaats voor taak unit factuur regels.	ALG
bubs-interface-exactonline-factuur-regel-formaat-artikel	Formaat voor regels van een verkooporder met taak unit.	Taak :tak_code
bubs-interface-exactonline-factuur-regel-formaat-artikel-notitie	Formaat voor notitie regels van een verkooporder met taak unit.	Taak :tak_code, artikel :unt_omschrijving: :cfl_omschrijving
bubs-interface-exactonline-factuur-regel-formaat-vaste-prijs	Formaat voor regels van een verkooporder met vaste prijs taak.	Taak :tak_code
bubs-interface-exactonline-factuur-regel-formaat-vaste-prijs-notitie	Formaat voor notitie regels van een verkooporder met vaste prijs taak.	Taak :tak_code: :tak_omschrijving, :unt_omschrijving
bubs-interface-exactonline-factuur-regel-volledige-inhoud	Volledige inhoud van de regel, zoals samengesteld uit de verschillende herkomsten en een eventueel kenmerk.	:omschrijving [:pjt_code_erp/8000/:cfl_volgnummer/M]
bubs-interface-exactonline-factuur-tekst-geen-commentaar	Tekst om te gebruiken in formaat als geen commentaar op de uren zit.	Geen toelichting
bubs-interface-exactonline-factuur-tekst-geen-locatie	Tekst om te gebruiken in formaat als geen locatie opgegeven voor :uur_locatie.	Op afstand
bubs-interface-exactonline-factuur-tekst-geen-taak-code	Tekst om te gebruiken in formaat als geen taak code beschikbaar voor :tak_omschrijving (project uren).	Project
bubs-interface-exactonline-factuur-tekst-geen-taak-omschrijving	Tekst om te gebruiken in formaat als geen taak omschrijving beschikbaar voor :tak_omschrijving (project uren).	Geen taak
bubs-interface-exactonline-formaat-datum	Formaat voor een datum in XML interface van Exact Online.	YYYY-MM-DD
bubs-interface-exactonline-formaat-getal	Formaat voor een getal in XML interface van Exact Online.	fm99999999999.99
bubs-interface-exactonline-gebruiker	Naam van de gebruiker binnen Exactonline voor de koppeling.	
bubs-interface-exactonline-url-download	URL voor download binnen Exactonline voor de koppeling, bijvoorbeeld https://start.exactonline.nl/docs/XMLDownload.aspx.	
bubs-interface-exactonline-url-upload	URL voor upload binnen Exactonline voor de koppeling, bijvoorbeeld https://start.exactonline.nl/docs/XMLUpload.aspx.	
bubs-interface-exactonline-vlag-1-factuur-per-concept-regel	Indicator of er 1 factuur gemaakt moet worden per concept factuur regel.	N
bubs-interface-exactonline-wachtwoord	Wachtwoord van de gebruiker binnen Exactonline voor de koppeling.	

1.5.1.2 Configuration

Perform the following steps to add master data:

- Create payment conditions and use the number of days payment terms in Invantive Vision as code.

1.5.1.3 To Exact Online

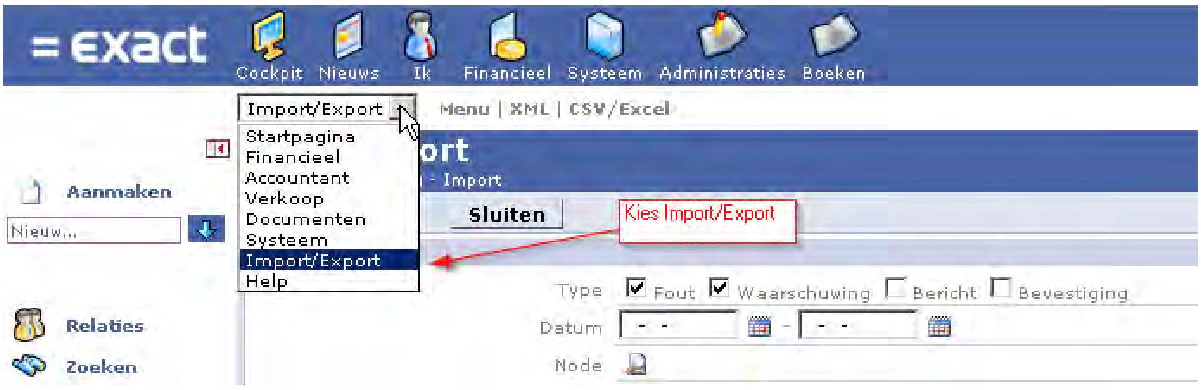
The next items describe how you can export data to Exact Online. The data will be imported via the XML Import of Exact Online.

The processing by a background job detects whether the processing was successful and provides a list of errors in the log, for example as follows:

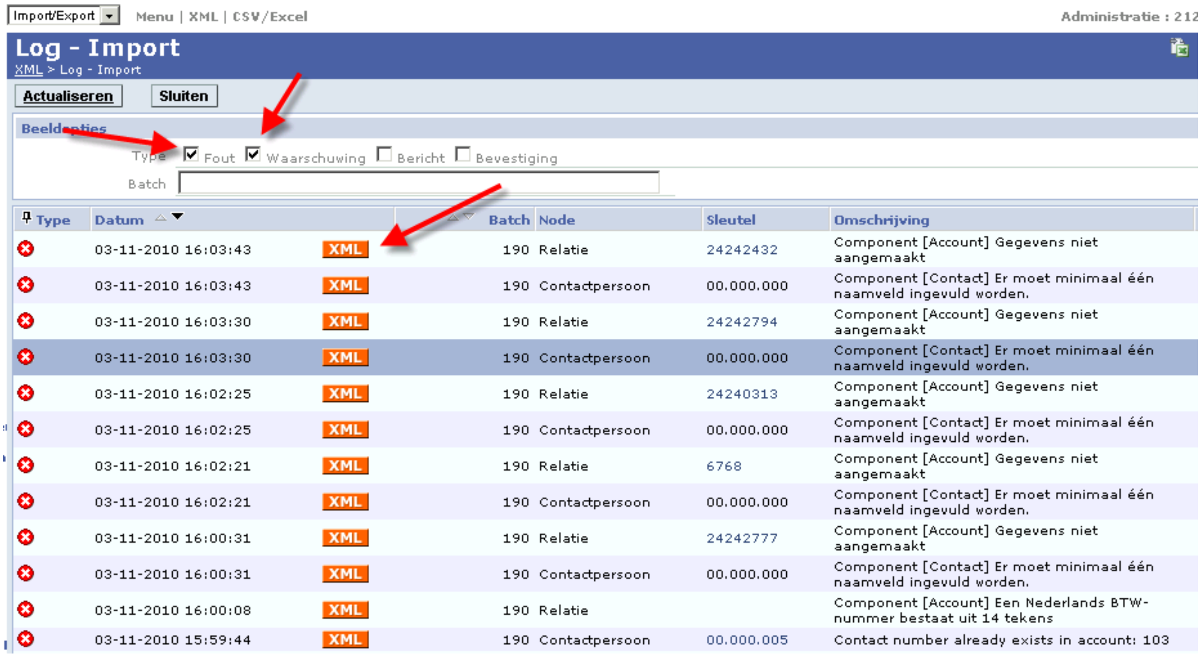
```
2010/11/21 20:54:14 - Log Errors.0 -
2010/11/21 20:54:14 - Log Errors.0 - ------------> Linenr
1------------------------------
2010/11/21 20:54:14 - Log Errors.0 - type =  0
2010/11/21 20:54:14 - Log Errors.0 - topicCode = Accounts
2010/11/21 20:54:14 - Log Errors.0 - topicNode = Account
2010/11/21 20:54:14 - Log Errors.0 - topicDataKeyAlt = 1386
2010/11/21 20:54:14 - Log Errors.0 - date = 2010-11-21T20:51:23
2010/11/21 20:54:14 - Log Errors.0 - description =  Component
[Account] Een Nederlands BTW-nummer bestaat uit 14 tekens
2010/11/21 20:54:14 - Log Errors.0 - typeDescription = Error
2010/11/21 20:54:14 - Log Errors.0 -
2010/11/21 20:54:14 - Log Errors.0 - ====================
2010/11/21 20:54:14 - Log Errors.0 -
2010/11/21 20:54:14 - Log Errors.0 - ------------> Linenr
2------------------------------
2010/11/21 20:54:14 - Log Errors.0 - type =  0
2010/11/21 20:54:14 - Log Errors.0 - topicCode = Accounts
2010/11/21 20:54:14 - Log Errors.0 - topicNode = Contact
2010/11/21 20:54:14 - Log Errors.0 - topicDataKeyAlt = 5
2010/11/21 20:54:14 - Log Errors.0 - date = 2010-11-21T20:51:23
```

```
2010/11/21 20:54:14 - Log Errors.0 - description = Contact num-
ber already exists in account:                  103
2010/11/21 20:54:14 - Log Errors.0 - typeDescription = Error
2010/11/21 20:54:14 - Log Errors.0 -
2010/11/21 20:54:14 - Log Errors.0 - ====================
```

After import of the data, you can find any error, via the menu 'Import XML' and then 'Log'.


exact
Cockpit
Nieuws
Ik
Financieel
Systeem
Administraties
Boeken
Import/Export
Menu | XML | CSV/Excel
Startpagina
Financieel
Accountant
Verkoop
Documenten
Systeem
Import/Export
Help
ort
- Import
Aanmaken
Nieuw...
Sluiten
Kies Import/Export
Relaties
Zoeken
Type
☑ Fout
☑ Waarschuwing
☐ Bericht
☐ Bevestiging
Datum
Node

Search for 'Error' and 'Warning'. By selecting the XML button, you can view the data which could not be processed:


Import/Export
Menu | XML | CSV/Excel
Administratie : 212
Log - Import
XML > Log - Import
Actualiseren
Sluiten
Beeldopties
Type
☑ Fout
☑ Waarschuwing
☐ Bericht
☐ Bevestiging
Batch

Type	Datum		Batch	Node	Sleutel	Omschrijving
⊗	03-11-2010 16:03:43	XML	190	Relatie	24242432	Component [Account] Gegevens niet aangemaakt
⊗	03-11-2010 16:03:43	XML	190	Contactpersoon	00.000.000	Component [Contact] Er moet minimaal één naamveld ingevuld worden.
⊗	03-11-2010 16:03:30	XML	190	Relatie	24242794	Component [Account] Gegevens niet aangemaakt
⊗	03-11-2010 16:03:30	XML	190	Contactpersoon	00.000.000	Component [Contact] Er moet minimaal één naamveld ingevuld worden.
⊗	03-11-2010 16:02:25	XML	190	Relatie	24240313	Component [Account] Gegevens niet aangemaakt
⊗	03-11-2010 16:02:25	XML	190	Contactpersoon	00.000.000	Component [Contact] Er moet minimaal één naamveld ingevuld worden.
⊗	03-11-2010 16:02:21	XML	190	Relatie	6768	Component [Account] Gegevens niet aangemaakt
⊗	03-11-2010 16:02:21	XML	190	Contactpersoon	00.000.000	Component [Contact] Er moet minimaal één naamveld ingevuld worden.
⊗	03-11-2010 16:00:31	XML	190	Relatie	24242777	Component [Account] Gegevens niet aangemaakt
⊗	03-11-2010 16:00:31	XML	190	Contactpersoon	00.000.000	Component [Contact] Er moet minimaal één naamveld ingevuld worden.
⊗	03-11-2010 16:00:08	XML	190	Relatie		Component [Account] Een Nederlands BTW-nummer bestaat uit 14 tekens
⊗	03-11-2010 15:59:44	XML	190	Contactpersoon	00.000.005	Contact number already exists in account: 103

In the log of the background job are more details about the process (note the bold and italics used for explanation):

```
21-10-2010 18:32:24 ETL: Script output: running ETL transforma-
tion or job.
*** Het programma is gestart om 18:32 op 21 oktober.
21-10-2010 18:32:24 ETL: Configure logger.
21-10-2010 18:32:24 ETL: Configure logger to use console.
21-10-2010 18:32:24 ETL: Init steploader.
21-10-2010 18:32:24 ETL: Load natives.
21-10-2010 18:32:26 ETL: Load plugins.
21-10-2010 18:32:26 ETL: Initialize environment.
21-10-2010 18:32:26 ETL: Init job entry loader.
21-10-2010 18:32:26 ETL: Start timer.
```

```
21-10-2010 18:32:26 ETL: determination fully qualified location of the ETL file ../etl/bubs2exactonline organisations.kjb.
```

**** Het ETL bestand '../etl/bubs2exactonline organisations.kjb' wordt uitgevoerd.*

```
21-10-2010 18:32:26 ETL: PL/SQL function to determine name hard coded location for ETL file is xxinvantive_get_report_loc.
21-10-2010 18:32:26 ETL: File ../etl/bubs2exactonline organisations.kjb will be loaded from /opt/prd/estate/qbubs/web/../etl/bubs2exactonline organisations.kjb using an unpacked war.
```

**** Na hulp van een database functie is de uiteindelijke bestandslocatie van het ETL bestand '/opt/prd/estate/qbubs/web/../etl/bubs2exactonline organisations.kjb' wordt uitgevoerd.*

```
21-10-2010 18:32:26 ETL: File /opt/prd/estate/qbubs/web/../etl/bubs2exactonline organisations.kjb is a Kettle Job.
```

**** ETL scripts kunnen zowel Transformatie (*.ktr) als Job (*.kjb) zijn. Dit is een job.*

```
21-10-2010 18:32:26 ETL: Set ETL variable BUBS_DB_SERVER to localhost.
```

**** De gegevens van de huidige database verbinding wordt via de omgevingsvariabelen BUBS_DB_SERVER, BUBS_DB_PORT, BUBS_DB_NAME, BUBS_DB_USER en BUBS_DB_PASSWORD doorgegeven.*

```
21-10-2010 18:32:26 ETL: Set ETL variable BUBS_DB_PORT to 1521.
21-10-2010 18:32:26 ETL: Set ETL variable BUBS_DB_NAME to PRD11R1.
21-10-2010 18:32:26 ETL: Set ETL variable BUBS_DB_USER to qbubs_web.
21-10-2010 18:32:27 ETL: Instantiate job.
21-10-2010 18:32:27 ETL: Set internal ETL variables.
21-10-2010 18:32:27 ETL: Copy background job parameters to ETL job parameters.
21-10-2010 18:32:27 ETL: Defined variables:
```

```
BUBS_DB_NAME, BUBS_DB_PASSWORD, BUBS_DB_PORT, BUBS_DB_SERVER,
BUBS_DB_USER, Internal.Cluster.Size, Internal.Job.Filename.Di-
rectory, Internal.Job.Filename.Name, Internal.Job.Name, Inter-
nal.Kettle.Build.Date, Internal.Kettle.Build.Version, Inter-
nal.Kettle.Version, Internal.Slave.Server.Name, Internal.Sla-
ve.Transformation.Number, Internal.Step.CopyNr, Inter-
nal.Step.Name, Internal.Step.Partition.ID, Internal.Step.Parti-
tion.Number, Internal.Step.Unique.Count, Internal.Step.Uni-
que.Number, catalina.base, catalina.home, catalina.useNaming,
com.sun.management.jmxremote, common.loader, file.encoding, fi-
le.encoding.pkg, file.separator, java.awt.graphicsenv, ja-
va.awt.headless, java.awt.printerjob, java.class.path, ja-
va.class.version, java.endorsed.dirs, java.ext.dirs, java.home,
java.io.tmpdir, java.library.path, java.naming.factory.initial,
java.naming.factory.url.pkgs, java.rmi.server.randomIDs, ja-
va.runtime.name, java.runtime.version, java.specification.name,
java.specification.vendor, java.specification.version, ja-
va.util.logging.config.file, java.util.logging.manager, ja-
va.vendor, java.vendor.url, java.vendor.url.bug, java.version,
java.vm.info, java.vm.name, java.vm.specification.name, ja-
va.vm.specification.vendor, java.vm.specification.version, ja-
va.vm.vendor, java.vm.version, line.separator, os.arch, os.name,
os.version, package.access, package.definition, path.separator,
server.loader, shared.loader, sun.arch.data.model,
sun.boot.class.path, sun.boot.library.path, sun.cpu.endian,
sun.cpu.isalist, sun.io.unicode.encoding, sun.java.launcher,
sun.jnu.encoding, sun.management.compiler, sun.os.patch.level,
tomcat.util.buf.StringCache.byte.enabled, user.country,
user.dir, user.home, user.language, user.name, user.timezone
*** Dit zijn de variabelen die binnen de ETL job bekend zijn.
21-10-2010 18:32:27 ETL: Execute job.
21-10-2010 18:37:26 ETL: Wait until job finished.
21-10-2010 18:37:26 ETL: Ended processing.
21-10-2010 18:37:26 ETL: Determine number of errors.
21-10-2010 18:37:26 ETL: Determine runtime.
21-10-2010 18:37:26 ETL: 299 seconds runtime.
ETL: No errors occurred.
*** Hieronder volgt de uitvoer van de ETL job.
2010/10/21 18:32:27 - bubs2exactonline organisations.kjb - Star-
ting entry [bubs configuration load]
2010/10/21 18:32:27 - bubs configuration load - Loading trans-
formation from XML file [file:///opt/prd/estate/qbubs/etl/bubs
configuration load.ktr]
2010/10/21 18:32:27 - bubs configuration load - Dispatching
started for transformation [bubs configuration load]
2010/10/21 18:32:27 - bubs configuration load - This transforma-
tion can be replayed with replay date: 2010/10/21 18:32:27
2010/10/21 18:32:27 - Get interface profile options.0 - Finished
reading query, closing connection.
2010/10/21 18:32:27 - Get interface profile options.0 - Finished
processing (I=53, O=0, R=0, W=53, U=0, E=0)
2010/10/21 18:32:27 - Set Variables.0 - Setting environment va-
riables...
```

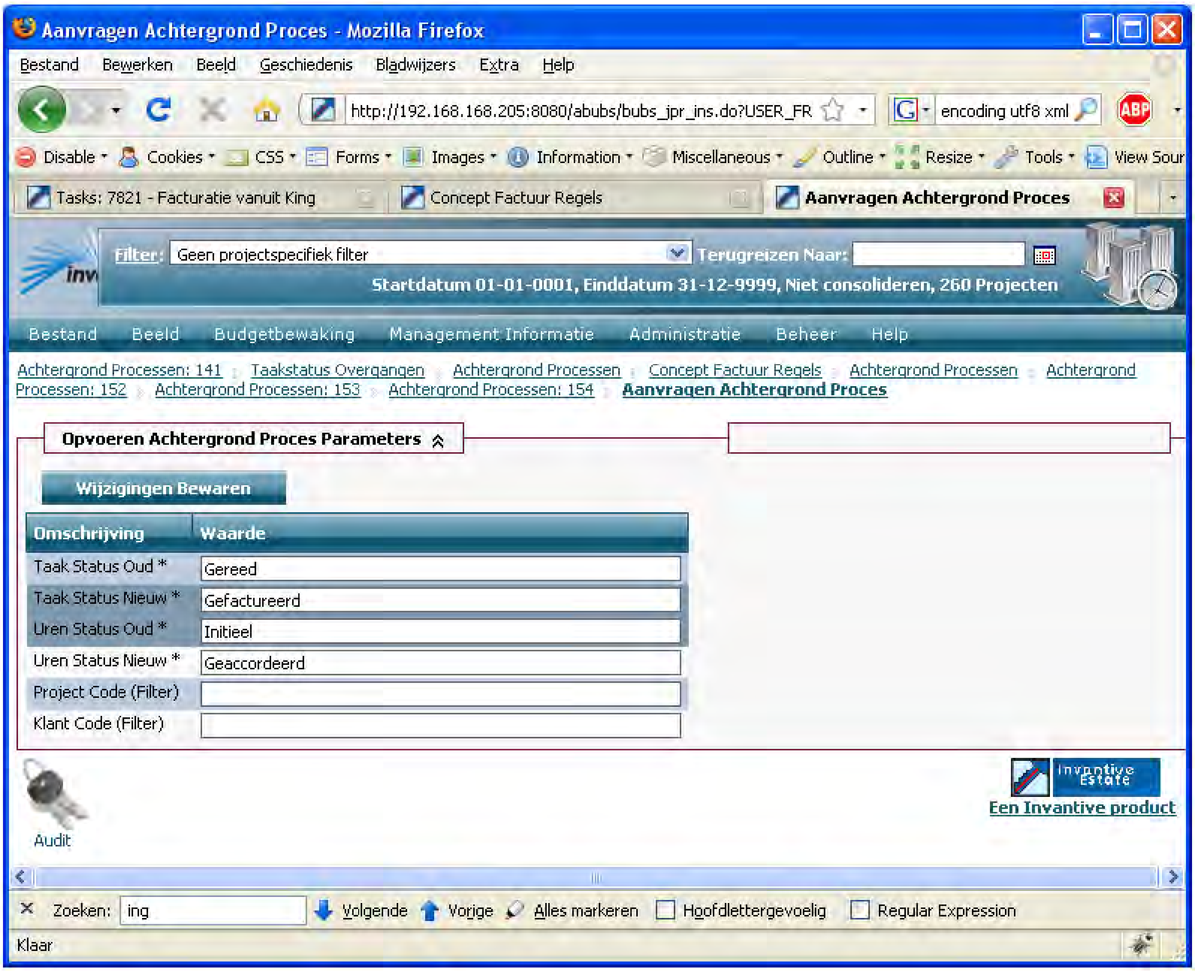
```
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-BUBS-DIRECTORY-INPUT to value [/opt/prd/estate/qbubs/
transfer/bubs/in]
*** In het begin worden profieloptiewaardes ingelezen in varia-
belen.
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-BUBS-DIRECTORY-INPUT-PROCESSED to value [/opt/prd/es-
tate/qbubs/transfer/bubs/in/processed]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-BUBS-DIRECTORY-INPUT-REJECTED to value [/opt/prd/esta-
te/qbubs/transfer/bubs/in/rejected]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-BUBS-DIRECTORY-OUTPUT to value [/opt/prd/estate/qbubs/
transfer/bubs/out]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-BUBS-DIRECTORY-OUTPUT-PROCESSED to value [/opt/prd/es-
tate/qbubs/transfer/bubs/out/processed]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-BUBS-DIRECTORY-OUTPUT-REJECTED to value [/opt/prd/es-
tate/qbubs/transfer/bubs/out/rejected]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
RUNTIME-TRANSFORMATION-DIR-SIMPLE to value [/opt/prd/estate/
qbubs/etl]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-EXACTONLINE-DIRECTORY-INPUT to value [/opt/prd/estate/
qbubs/transfer/exactonline/in]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-EXACTONLINE-GEBRUIKER to value [invantive1]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-EXACTONLINE-WACHTWOORD to value [appelfl1p]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-EXACTONLINE-URL-DOWNLOAD to value [https://
start.exactonline.nl/docs/XMLDownload.aspx]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-EXACTONLINE-URL-UPLOAD to value [https://start.exact-
online.nl/docs/XMLUpload.aspx]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-MULTIVERS-DIRECTORY-INPUT to value []
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
INTERFACE-MULTIVERS-DIRECTORY-INPUT-PROCESSED to value []
...
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-SITE-
ID to value [Invantive BV-ws35-prd11r1-QBUBS-Invantive Visi-
on-$URL: http://subversion.invantive.com:81/repos/p104/trunk/
fixes/b40_mp-005/ddl/b40_mp-005.sql $ $Rev: 6923 $]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-START-
TIJD-WS to value [2010-10-21T18:32:27]
2010/10/21 18:32:27 - Set Variables.0 - Set variable BUBS-
LICENTIE-NAAM-PRODUCT to value [Invantive Vision]
2010/10/21 18:32:27 - Row denormaliser.0 - Finished processing
(I=0, O=0, R=53, W=1, U=0, E=0)
2010/10/21 18:32:27 - Set Variables.0 - Finished after 1 rows.
2010/10/21 18:32:27 - Set Variables.0 - Finished processing
(I=0, O=0, R=1, W=1, U=0, E=0)
```

```
2010/10/21 18:32:28 - bubs2exactonline organisations.kjb - Star-
ting entry [Delete old Accounts files]
2010/10/21 18:32:28 - bubs2exactonline organisations.kjb - Star-
ting entry [bubs2exactonline organisations extract]
2010/10/21 18:32:28 - bubs2exactonline organisations extract -
Loading transformation from XML file [file:///opt/prd/estate/
qbubs/etl/bubs2exactonline organisations extract.ktr]
2010/10/21 18:32:28 - bubs2exactonline organisations extract -
Dispatching started for transformation [bubs2exactonline organi-
sations extract]
2010/10/21 18:32:28 - bubs2exactonline organisations extract -
This transformation can be replayed with replay date: 2010/10/21
18:32:28
2010/10/21 18:32:28 - XML Join.0 - Starting to run...
2010/10/21 18:32:28 - Load organisations container.0 - Finished
processing (I=0, O=0, R=0, W=1, U=0, E=0)
2010/10/21 18:32:28 - xmlorganisations.0 - Finished processing
(I=0, O=0, R=1, W=1, U=0, E=0)
*** Regelmatig zie je statistieken (I=input, O=output, R=gele-
zen, W=geschreven, E=foutmeldingen).
...
2010/10/21 18:37:26 - bubs2exactonline organisations.kjb - Star-
ting entry [Success]
2010/10/21 18:37:26 - bubs2exactonline organisations.kjb - Fi-
nished job entry [Success] (result=[true])
2010/10/21 18:37:26 - bubs2exactonline organisations.kjb - Fi-
nished job entry [bubs2exactonline webservice put] (re-
sult=[true])
2010/10/21 18:37:26 - bubs2exactonline organisations.kjb - Fi-
nished job entry [bubs2exactonline organisations generate topic
Accounts] (result=[true])
2010/10/21 18:37:26 - bubs2exactonline organisations.kjb - Fi-
nished job entry [bubs2exactonline organisations extract] (re-
sult=[true])
2010/10/21 18:37:26 - bubs2exactonline organisations.kjb - Fi-
nished job entry [Delete old Accounts files] (result=[true])
2010/10/21 18:37:26 - bubs2exactonline organisations.kjb - Fi-
nished job entry [bubs configuration load] (result=[true])
*** Einde van de uitvoer van de ETL job.
21-10-2010 18:37:26 ETL: ETL Script finished.
```

Concept Invoices

The import of concept invoices to Exact Online is described here. A background script is available for the invoicing of hours to processes and projects and fixed price processes. This ensures that the invoice data will be stored as concept invoice lines. The daily process is as follows:

- Go to the screen 'Submit Background Job' 220.
- Select the background script ‘Invoicing: Process all parts’.
- Enter the parameters as follows:


Aanvragen Achtergrond Proces - Mozilla Firefox
Bestand Bewerken Beeld Geschiedenis Bladwijzers Extra Help
http://192.168.168.205:8080/abubs/bubs_jpr_ins.do?USER_FR
encoding utf8 xml
Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Sour
Tasks: 7821 - Facturatie vanuit King
Concept Factuur Regels
Aanvragen Achtergrond Proces
Filter: Geen projectspecifiek filter
Terugreizen Naar:
Startdatum 01-01-0001, Einddatum 31-12-9999, Niet consolideren, 260 Projecten
Bestand Beeld Budgetbewaking Management Informatie Administratie Beheer Help
Achtergrond Processen: 141 Taakstatus Overgangen Achtergrond Processen Concept Factuur Regels Achtergrond Processen Achtergrond Processen: 152 Achtergrond Processen: 153 Achtergrond Processen: 154 Aanvragen Achtergrond Proces
Opvoeren Achtergrond Proces Parameters
Wijzigingen Bewaren
Audit
Invantive Estate
Een Invantive product
Zoeken: ing
Volgende Vorige Alles markeren Hoofdlettergevoelig Regular Expression
Klaar

Omschrijving	Waarde
Taak Status Oud *	Gereed
Taak Status Nieuw *	Gefactureerd
Uren Status Oud *	Initieel
Uren Status Nieuw *	Geaccordeerd
Project Code (Filter)	
Klant Code (Filter)	

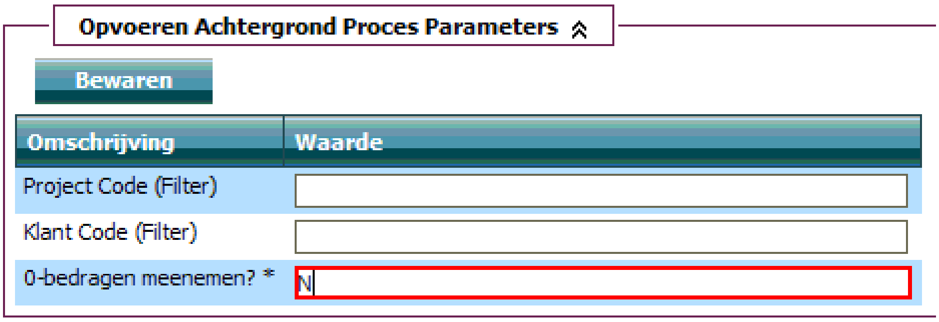
- Wait until the process is successfully completed in the screen Background Jobs 220.
- Now you can check the concept invoices in the screen Concept Invoice Lines 132.

Upload concept invoice lines to Exact Online

A background script is available for the invoicing of hours to processes and projects and fixed price processes. This ensures that the invoice data will be stored as concept invoice lines.

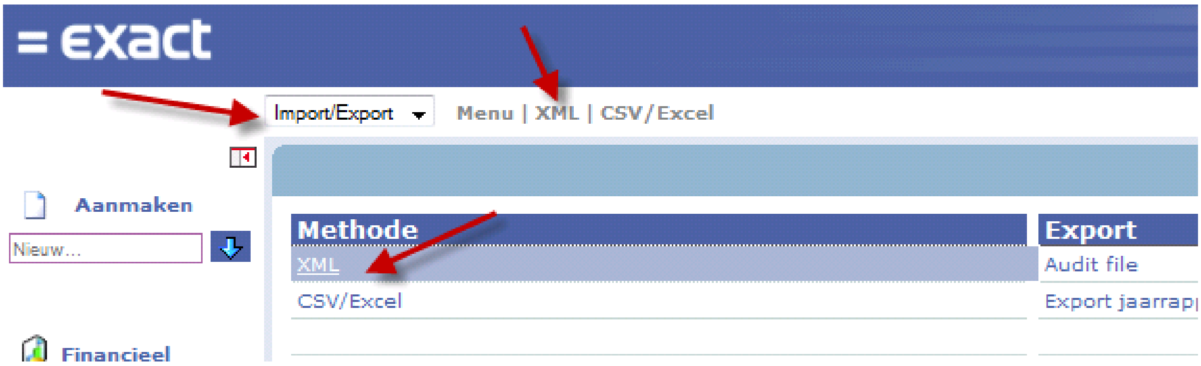
Uploading the concept invoice lines as purchase orders goes like this:

- Go to the screen 'Submit Background Job' 220.
- Select the background script 'Exact Online: Extraction sales invoices' and enter the parameters, usually, 'N' (no) is specified at 0-sums take along:

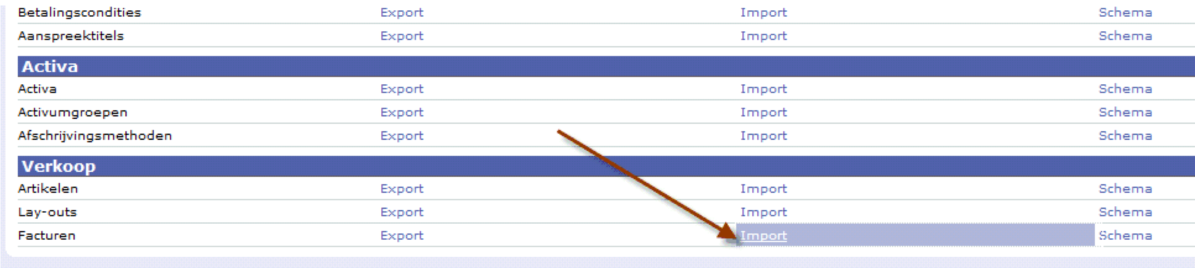

Opvoeren Achtergrond Proces Parameters
Bewaren

Omschrijving	Waarde
Project Code (Filter)	
Klant Code (Filter)	
0-bedragen meenemen? *	N

- Wait until the process is successfully completed in the screen Background Jobs 220.
- Save the export as XML file in the folder ‘out’ on the server or in another location.
- You can import the XML file in Exact Online via the following menu:

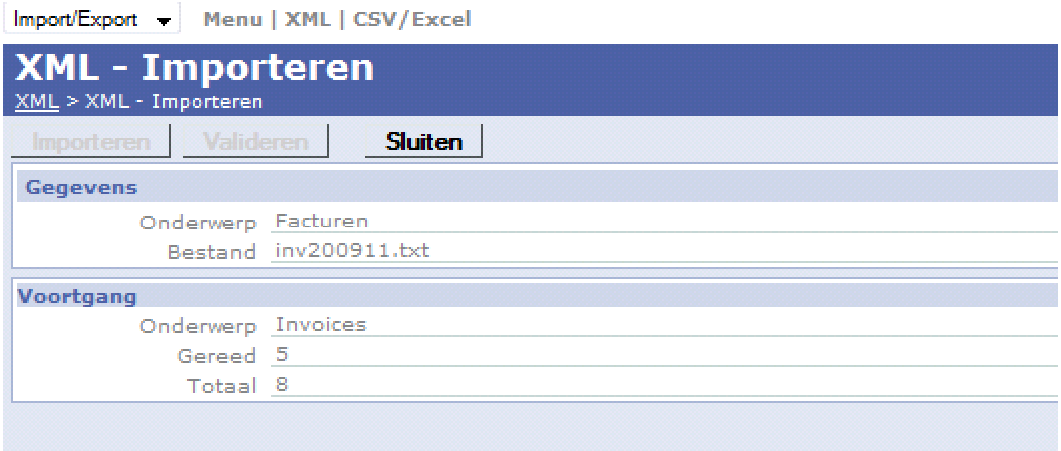

= exact
Import/Export
Menu | XML | CSV/Excel
Aanmaken
Nieuw...
Financieel
Methode
XML
CSV/Excel
Export
Audit file
Export jaarrap

- Then:



Betalingscondities	Export	Import	Schema
Aanspreektitels	Export	Import	Schema
Activa			
Activa	Export	Import	Schema
Activumgroepen	Export	Import	Schema
Afschrijvingsmethoden	Export	Import	Schema
Verkoop			
Artikelen	Export	Import	Schema
Lay-outs	Export	Import	Schema
Facturen	Export	Import	Schema

- Import the file finally with:


Import/Export
Menu | XML | CSV/Excel
XML - Importeren
XML > XML - Importeren
Importeren
Valideren
Sluiten

Gegevens

Onderwerp Facturen

Bestand inv200911.txt

Voortgang

Onderwerp Invoices

Gereed 5

Totaal 8

Products

The import of products to Exact Online is described here. A background script is available for the transfer of products. This ensures that the products from Invantive Estate are saved as products in Exact Online.

Note: the transfer of products is not necessary for the use of concept invoices! The importing of products normally only happens if the product file is primarely stored in Invantive Estate.

Perform the following steps:

- Go to the screen 'Submit Background Job' 220.
- Run the background job ' Manage: Run ETL'.

- Enter with ETL Specification the next value: ../etl/bubs2exactonline articles.kjb
- Wait till the background process is finished.
- Check the log file if the data was successfully imported in Exact Online.

Organizations

The import of organizations to Exact Online is described here. For the port of organisations a background script is available. This ensures that organizations from Invantive Estate are saved as relations in Exact Online.

Perform the following steps:
- Go to the screen 'Submit Background Job' 220.
- Run the background job ' Manage: Run ETL'.
- Voer bij ETL Specification de volgende waarde in: ../etl/bubs2exactonline organisations.kjb
- Wait till the background process is finished.
- Check the log file if the data was successfully imported in Exact Online.

Projects

The import of project to Exact Online is describerd here. For the port of projects a background script is available. This ensures that projects from Invantive Estate are saved as cost centers in Exact Online.

Perform the following steps:
- Go to the screen 'Submit Background Job' 220.
- Run the background job ' Manage: Run ETL'.
- Enter the next value at ETL Specification: ../etl/bubs2exactonline projects.kjb
- Wait till the background process is finished.
- Check the log file if the data was successfully imported in Exact Online.

Cost Centers

The import of cost centers to Exact Online is described here. For the port of cost centers a background script is available. This ensures that the people who write time Invantive Estate are saved as cost centers in Exact Online.

Next to that, it is necessary to manually develop cost centers for fixed price processes (see profile option 'bubs-interface-exactonline-factuur-kostenplaats-proces'), process units (see profieloption 'bubs-interface-exactonline-factuur-kostenplaats-proces-unit') and conversion (see profieloption 'bubs-interface-exactonline-factuur-kostenplaats-conversie').

Perform the following steps:
- Go the the screen 'Submit Background Job'.
- Run the background job ' Manage: Run ETL'.
- Voer bij ETL Specification de volgende waarde in: ../etl/bubs2exactonline costcenters.kjb
- Wait till the background process is finished.
- Check the log file if the data was successfully imported in Exact Online.

1.5.1.4 From Exact Online

The following parts describe how you can extract data from Exact Online. The data is read via the XML export of Exact Online.

Posting rules

The import of accounting rules is explained here.

The booking lines must have been completely processed in the general ledger and have a permanent character. Unprocessed posting lines are skipped in the gateway.

The import of accounting rules (transactions, receivable and payable invoices) to Exact Online is explained here. A background script for the transfer of accounting rules is available. This ensures that the accounting rules from Exact Online will be stored as invoices and invoice lines in Invantive Estate.

Perform the following steps:

- Go to the screen 'Submit Background Job' 220.
- Run the background job ' Manage: Run ETL'.
- Enter in the following value in ETL Specification: .. / etl/exactonline2bubs transactions.kjb
- Wait till the background process is finished.
- Check the log file to see if the data was successfully imported in Invantive Estate.

1.5.2 Exact Globe 2000 Interface

Invantive Estate is compatible with the accounting package Exact Globe 2000. The interface works in one direction:

- Persons, cost categories, invoices, invoice lines and organizations will be imported from Exact Globe 2000 into Invantive Estate.

1.5.3 Link Twinfield

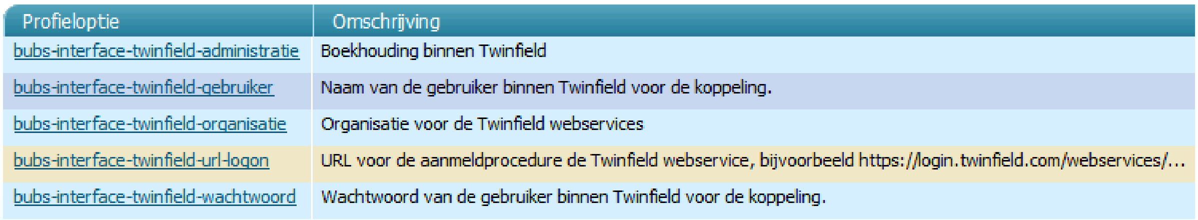
Invantive Estate can collaborate with the accounting package Twinfield. This link goes in one direction:

- Organizations from Invantive Estate can be read in Twinfield as debtors or creditors.
- Projects from Invantive Estate can be read in Twinfield as projects.
- Cost center from Invantive Estate can be read in Twinfield as cost centers.

1.5.3.1 Installation

Perform the following steps:

- Copy the add-on files to the folder 'etl'.
- Set the following profile options:



Profieloptie	Omschrijving
bubs-interface-twinfield-administratie	Boekhouding binnen Twinfield
bubs-interface-twinfield-gebruiker	Naam van de gebruiker binnen Twinfield voor de koppeling.
bubs-interface-twinfield-organisatie	Organisatie voor de Twinfield webservices
bubs-interface-twinfield-url-logon	URL voor de aanmeldprocedure de Twinfield webservice, bijvoorbeeld https://login.twinfield.com/webservices/...
bubs-interface-twinfield-wachtwoord	Wachtwoord van de gebruiker binnen Twinfield voor de koppeling.

Twinfield profile options

1.5.3.2 Configuration

Dimension values

Within Twinfield you can restrict possible values of the dimensions by entering a format. For a working link enter it in Invantive Estate so it can restrict values in Twinfield for a mutual sequence.

1.5.3.3 To Twinfield

You can port data with the following background scripts:

- Twinfield: Send Organizations to Twinfield
- Twinfield: Send Projects to Twinfield
- Twinfield: Send Cost centers to Twinfield

1.5.4 ENIAC Interface

This information is available on request.

1.5.5 Reeleezee Interface

Data

The interface with Reeleezee is used to import the following data into Reeleezee:

- Unit types as Products.
- Organizations as Relations.
- Concept Invoices as Sales Invoices.

1.5.5.1 Installation

Preparation for Relations

Notice! Ensure that all existing customers and suppliers from Reeleezee are already in the system using the same code and ID. If this is not previously done, then existing relationships in Reeleezee will get another name which will cause that historical transactions will not be registered on the correct name anymore.

Preparation for Products

Reeleezee does not support your own VAT codes. Therefore, the VAT codes need to be entered as follows:

- HD: High tariff, Services
- HP: High tariff, Products
- LD: Low tariff, Services
- LD: Low tariff, Products
- N: Zero tariff
- V: Exempt

Preparation for Sales Invoices

None.

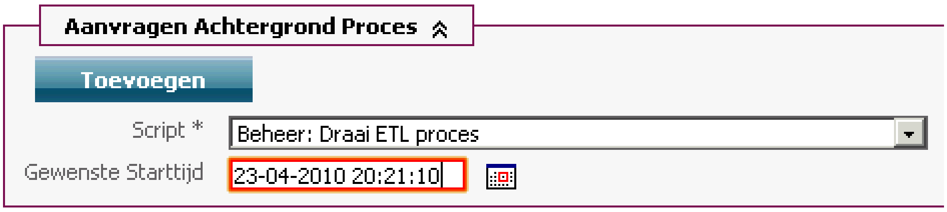
1.5.5.2 To Reeleezee

Normal Use

Create File with Products

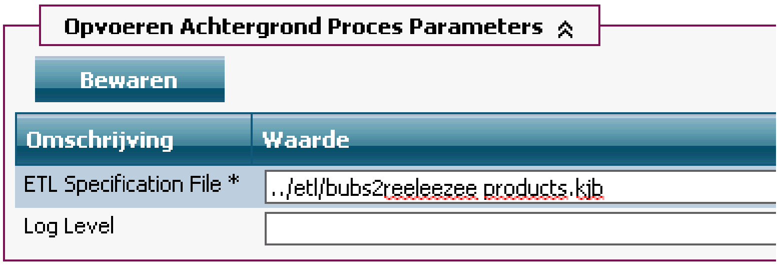
Only products will be included in the file.

- Start an ETL script:


Aanvragen Achtergrond Proces
Toevoegen

Script * Beheer: Draai ETL proces
Gewenste Starttijd 23-04-2010 20:21:10

- Parameters:


Opvoeren Achtergrond Proces Parameters
Bewaren

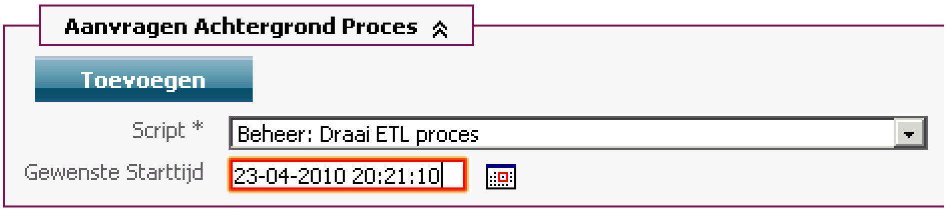
Omschrijving	Waarde
ETL Specification File *	../etl/bubs2reeleezee products.kjb
Log Level	

- Upload the file as described below.

Create File with Products

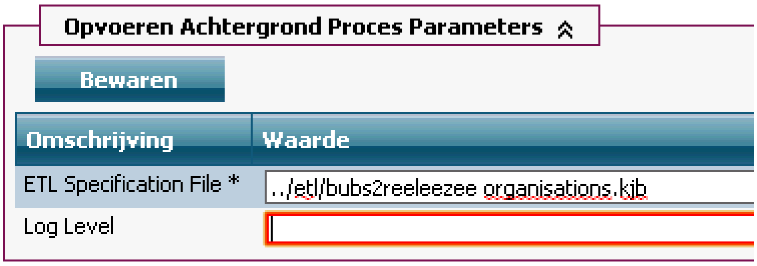
Only clients and suppliers will be included in the file.

- Start an ETL script:


Aanvragen Achtergrond Proces
Toevoegen

Script * Beheer: Draai ETL proces
Gewenste Starttijd 23-04-2010 20:21:10

- Parameters:


Opvoeren Achtergrond Proces Parameters
Bewaren

Omschrijving	Waarde
ETL Specification File *	../etl/bubs2reeleezee organisations.kjb
Log Level	

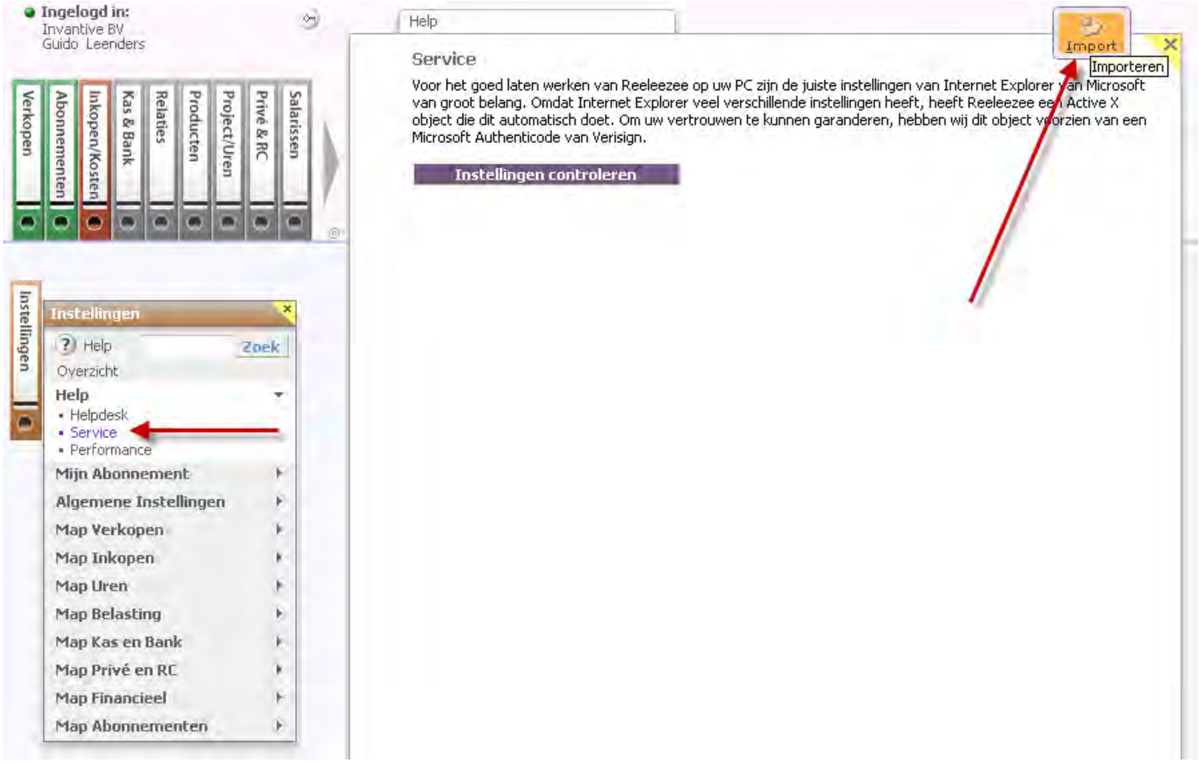
- Upload the file as described below.

Create File with Sales Invoices

Only concept invoice lines which are not yet exported will be included in the file.

Upload to Reeleezee

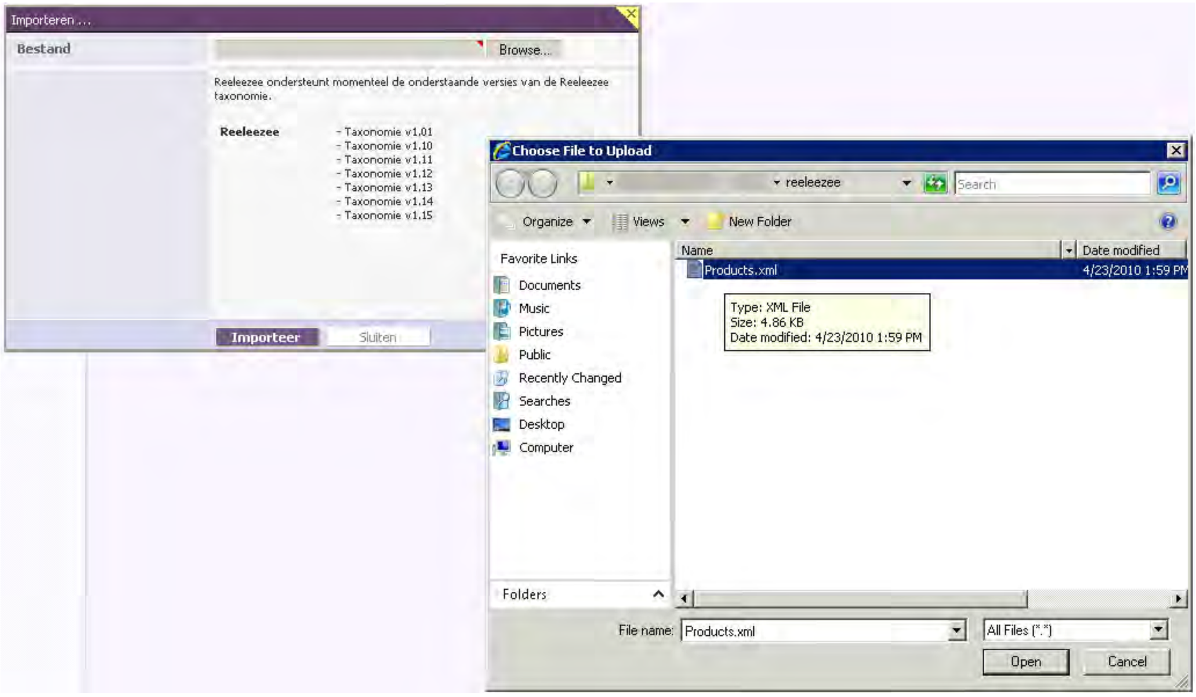
The files to be uploaded are placed in the folder as set for the profile option bubs-interface-reeleezee-input. No use is made of the web service of Reeleezee.. Import goes via Settings -> Help -> Service -> Import:


Ingelogd in:
Invantive BV
Guido Leenders
Verkopen
Abonnementen
Inkopen/Kosten
Kas & Bank
Relaties
Producten
Project/Uren
Privé & RC
Salarissen
Instellingen
Instellingen
Help
Zoek
Overzicht
Help
Helpdesk
Service
Performance
Mijn Abonnement
Algemene Instellingen
Map Verkopen
Map Inkopen
Map Uren
Map Belasting
Map Kas en Bank
Map Privé en RC
Map Financieel
Map Abonnementen
Help
Import
Importeren
Instellingen controleren

Service

Voor het goed laten werken van Reeleezee op uw PC zijn de juiste instellingen van Internet Explorer van Microsoft van groot belang. Omdat Internet Explorer veel verschillende instellingen heeft, heeft Reeleezee een Active X object die dit automatisch doet. Om uw vertrouwen te kunnen garanderen, hebben wij dit object voorzien van een Microsoft Authenticode van Verisign.

Then select the file:

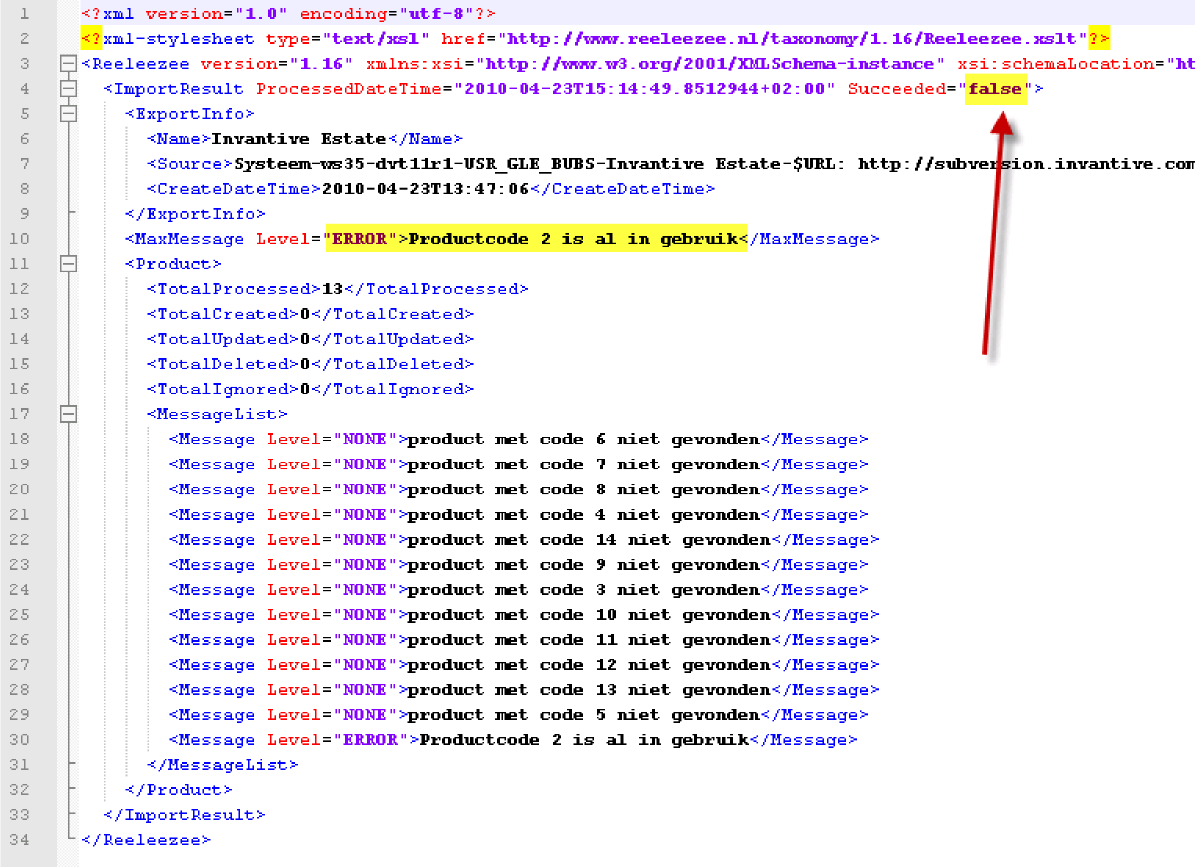

Importeren ...
Bestand
Browse...
Importeer
Sluiten
Choose File to Upload
reeleezee
Search
Organize
Views
New Folder
Favorite Links
Documents
Music
Pictures
Public
Recently Changed
Searches
Desktop
Computer
Folders
Name
Date modified
Products.xml
4/23/2010 1:59 PM
Type: XML File
Size: 4.86 KB
Date modified: 4/23/2010 1:59 PM
File name:
All Files (*.*)
Open
Cancel

Reeleezee ondersteunt momenteel de onderstaande versies van de Reeleezee taxonomie.

Reeleezee
- Taxonomie v1.01
- Taxonomie v1.10
- Taxonomie v1.11
- Taxonomie v1.12
- Taxonomie v1.13
- Taxonomie v1.14
- Taxonomie v1.15

File name: Products.xml

The results are returned as an XML file that you can access using Notepad, for example:



```
<?xml version="1.0" encoding="utf-8"?>
<?xml-stylesheet type="text/xsl" href="http://www.reeleezee.nl/taxonomy/1.16/Reeleezee.xslt"?>
<Reeleezee version="1.16" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="ht
  <ImportResult ProcessedDateTime="2010-04-23T15:14:49.8512944+02:00" Succeeded="false">
    <ExportInfo>
      <Name>Invantive Estate</Name>
      <Source>Systeem-ws35-dvt11r1-USR_GLE_BUBS-Invantive Estate-$URL: http://subversion.invantive.com
      <CreateDateTime>2010-04-23T13:47:06</CreateDateTime>
    </ExportInfo>
    <MaxMessage Level="ERROR">Productcode 2 is al in gebruik</MaxMessage>
    <Product>
      <TotalProcessed>13</TotalProcessed>
      <TotalCreated>0</TotalCreated>
      <TotalUpdated>0</TotalUpdated>
      <TotalDeleted>0</TotalDeleted>
      <TotalIgnored>0</TotalIgnored>
      <MessageList>
        <Message Level="NONE">product met code 6 niet gevonden</Message>
        <Message Level="NONE">product met code 7 niet gevonden</Message>
        <Message Level="NONE">product met code 8 niet gevonden</Message>
        <Message Level="NONE">product met code 4 niet gevonden</Message>
        <Message Level="NONE">product met code 14 niet gevonden</Message>
        <Message Level="NONE">product met code 9 niet gevonden</Message>
        <Message Level="NONE">product met code 3 niet gevonden</Message>
        <Message Level="NONE">product met code 10 niet gevonden</Message>
        <Message Level="NONE">product met code 11 niet gevonden</Message>
        <Message Level="NONE">product met code 12 niet gevonden</Message>
        <Message Level="NONE">product met code 13 niet gevonden</Message>
        <Message Level="NONE">product met code 5 niet gevonden</Message>
        <Message Level="ERROR">Productcode 2 is al in gebruik</Message>
      </MessageList>
    </Product>
  </ImportResult>
</Reeleezee>
```

Pay especially attention to the outcome of ‘Succeeded’. ‘Succeeded’ indicates if the scan was successful.

1.5.6 Frotcom Interface

Data

The interface with Frotcom is used to import the following data into Frotcom:

- xxx.

The following data will be imported from Frotcom into Invantive Estate:

- xxx.

1.5.7 Unit4 Multivers interface

Data

The interface with Multivers is used to import the following data:

- Concept Invoices as Sales Invoices.

1.5.7.1 Installation

Preparation

Preparation for Sales Invoices

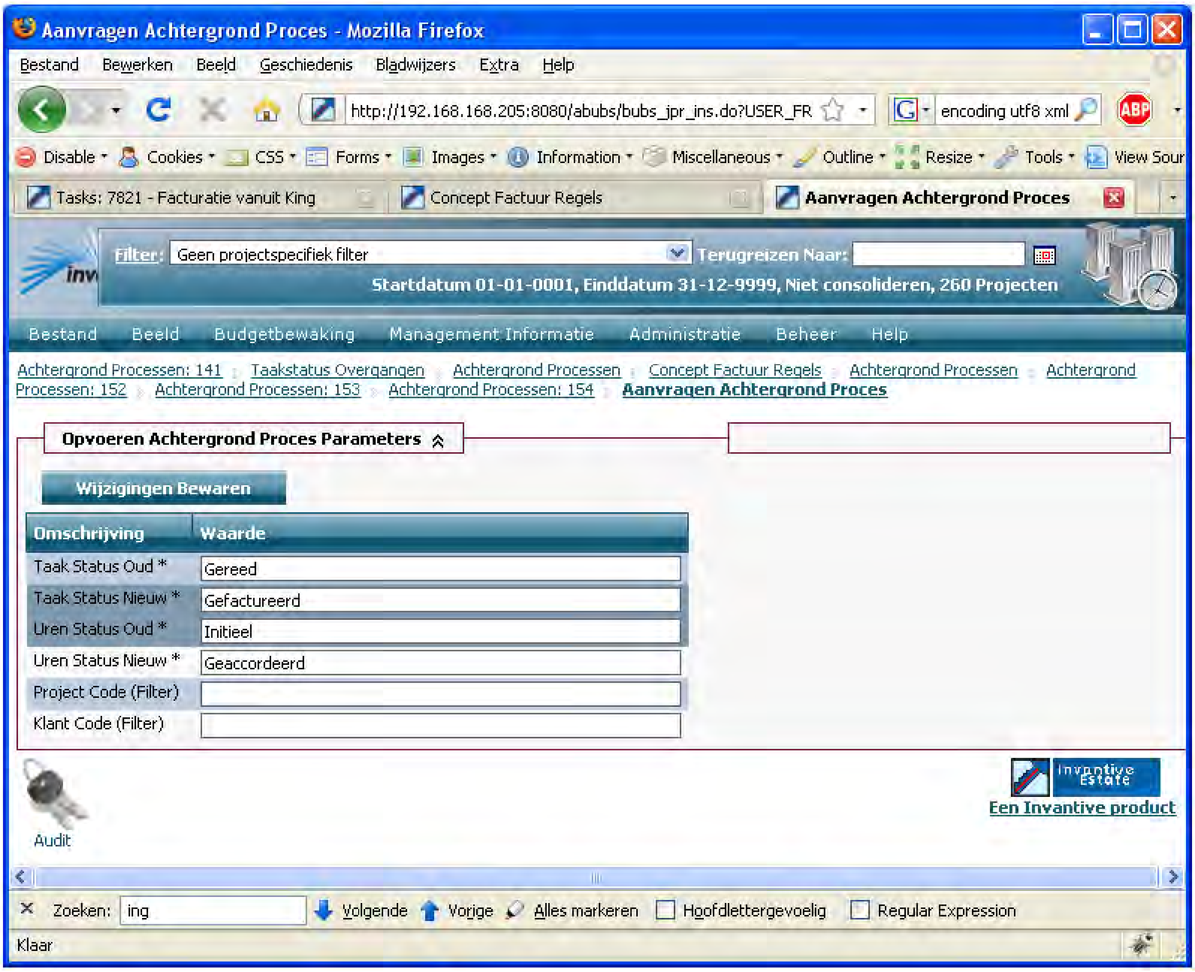
Perform the following checks:

- The Unit4 Business Connector needs to be licensed within the Unit4 Multivers license.
- The Invantive Vision server which is running Tomcat must be the same server as where Unit4 Multivers Business Connector is available.
- Verify that the registry on this server has a class MBO.Administration.

1.5.7.2 Concept Invoices

The import of concept invoices to Exact Online is described here. A background script is available for the invoicing of hours to processes and projects and fixed price processes. This ensures that the invoice data will be stored as concept invoice lines. The daily process is as follows:

- Go to the screen 'Submit Background Job' 220.
- Select the background script 'Invoicing: Process all parts'.
- Enter the parameters as follows:


Aanvragen Achtergrond Proces - Mozilla Firefox
Bestand Bewerken Beeld Geschiedenis Bladwijzers Extra Help
http://192.168.168.205:8080/abubs/bubs_jpr_ins.do?USER_FR
encoding utf8 xml
Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Sour
Tasks: 7821 - Facturatie vanuit King
Concept Factuur Regels
Aanvragen Achtergrond Proces
Filter: Geen projectspecifiek filter
Terugreizen Naar:
Startdatum 01-01-0001, Einddatum 31-12-9999, Niet consolideren, 260 Projecten
Bestand Beeld Budgetbewaking Management Informatie Administratie Beheer Help
Achtergrond Processen: 141 Taakstatus Overgangen Achtergrond Processen Concept Factuur Regels Achtergrond Processen Achtergrond Processen: 152 Achtergrond Processen: 153 Achtergrond Processen: 154 Aanvragen Achtergrond Proces
Opvoeren Achtergrond Proces Parameters
Wijzigingen Bewaren
Audit
Invantive Estate
Een Invantive product
Zoeken: ing
Volgende
Vorige
Alles markeren
Hoofdlettergevoelig
Regular Expression
Klaar

Omschrijving	Waarde
Taak Status Oud *	Gereed
Taak Status Nieuw *	Gefactureerd
Uren Status Oud *	Initieel
Uren Status Nieuw *	Geaccordeerd
Project Code (Filter)	
Klant Code (Filter)	

- Wait until the process is successfully completed in the screen Background Jobs 220.
- Now you can check the concept invoices in the screen Concept Invoice Lines 132.

Reading Draft Invoice Lines

A background script is available for the invoicing of hours to processes and projects and fixed price processes. This ensures that the invoice data will be stored as concept invoice lines. For proper processing, the following needs to be arranged:

- For all employees with billable hours unique initials are entered. These are used to add the cost center.

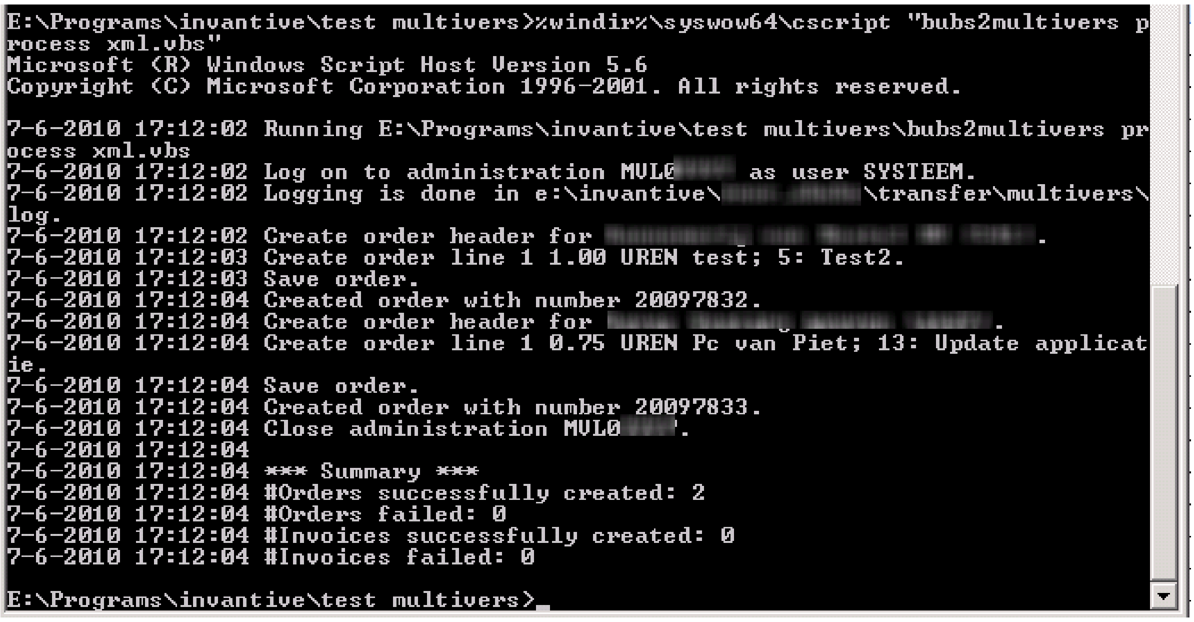
The reading of the draft invoice line as invoice orders goes as follows:

- Go to the screen 'Submit Background Job' 220.
- Select the background script ‘Multivers: Extraction sales invoices’.
- Wait until the process is successfully completed in the screen Background Jobs 220.
- Save the export as XML file in the folder ‘out’ on the server or in another location.

Upload in Multivers

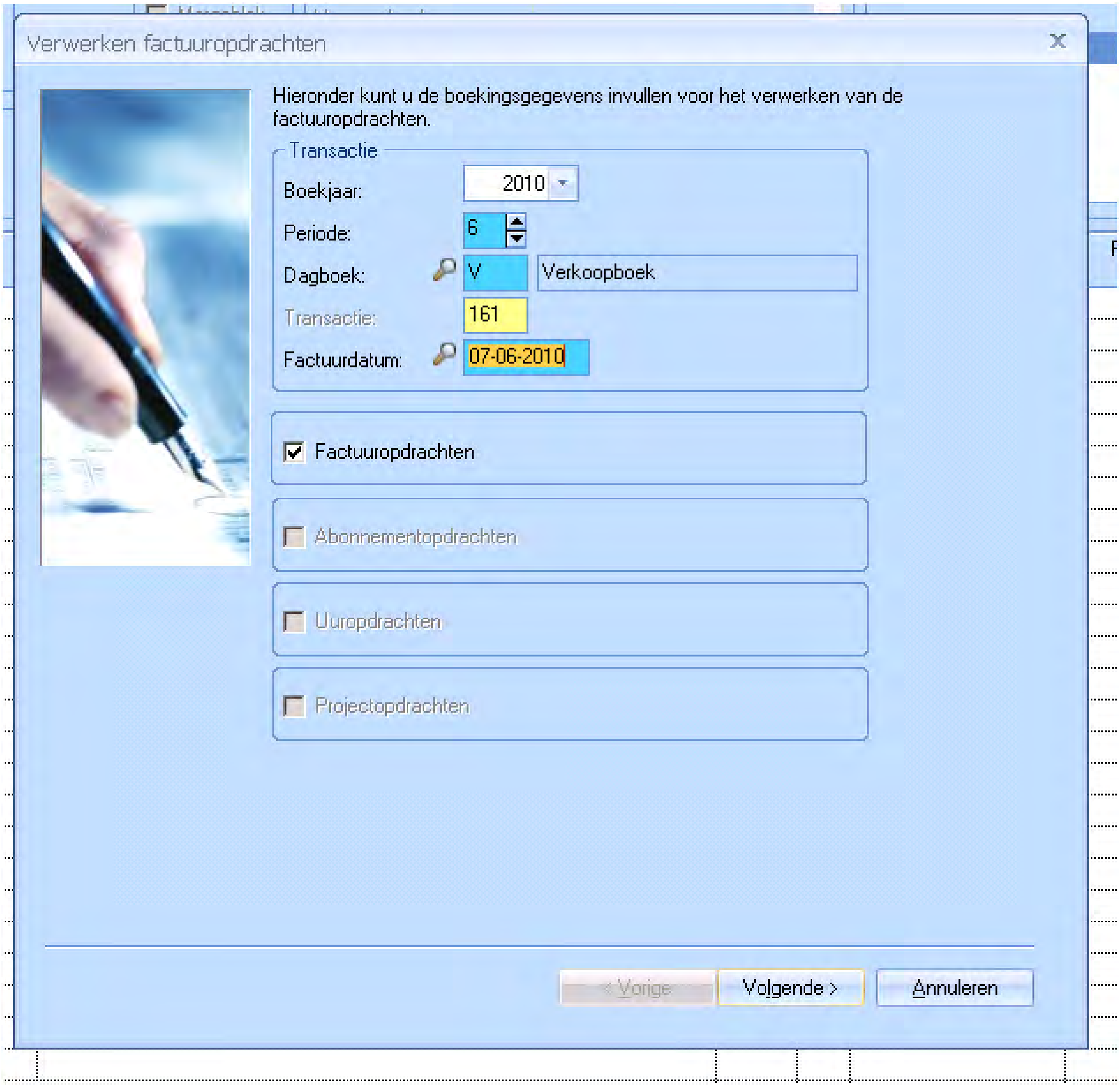
Perform the following steps:

- Process the XML invoices with the bubs2multivers cpu to invoice orders:



```
E:\Programs\invantive\test multivers>%windir%\syswow64\cscript "bubs2multivers p
rocess xml.vbs"
Microsoft (R) Windows Script Host Version 5.6
Copyright (C) Microsoft Corporation 1996-2001. All rights reserved.

7-6-2010 17:12:02 Running E:\Programs\invantive\test multivers\bubs2multivers pr
ocess xml.vbs
7-6-2010 17:12:02 Log on to administration MVL0[redacted] as user SYSTEEM.
7-6-2010 17:12:02 Logging is done in e:\invantive\[redacted]\transfer\multivers\
log.
7-6-2010 17:12:02 Create order header for [redacted].
7-6-2010 17:12:03 Create order line 1 1.00 UREN test; 5: Test2.
7-6-2010 17:12:03 Save order.
7-6-2010 17:12:04 Created order with number 20097832.
7-6-2010 17:12:04 Create order header for [redacted].
7-6-2010 17:12:04 Create order line 1 0.75 UREN Pc van Piet; 13: Update applicat
ie.
7-6-2010 17:12:04 Save order.
7-6-2010 17:12:04 Created order with number 20097833.
7-6-2010 17:12:04 Close administration MVL0[redacted].
7-6-2010 17:12:04
7-6-2010 17:12:04 *** Summary ***
7-6-2010 17:12:04 #Orders successfully created: 2
7-6-2010 17:12:04 #Orders failed: 0
7-6-2010 17:12:04 #Invoices successfully created: 0
7-6-2010 17:12:04 #Invoices failed: 0

E:\Programs\invantive\test multivers>_
```

- Process the invoice orders:



Verwerken factuuropdrachten

Hieronder kunt u de boekingsgegevens invullen voor het verwerken van de factuuropdrachten.

Transactie

Boekjaar: 2010

Periode: 6

Dagboek: V Verkoopboek

Transactie: 161

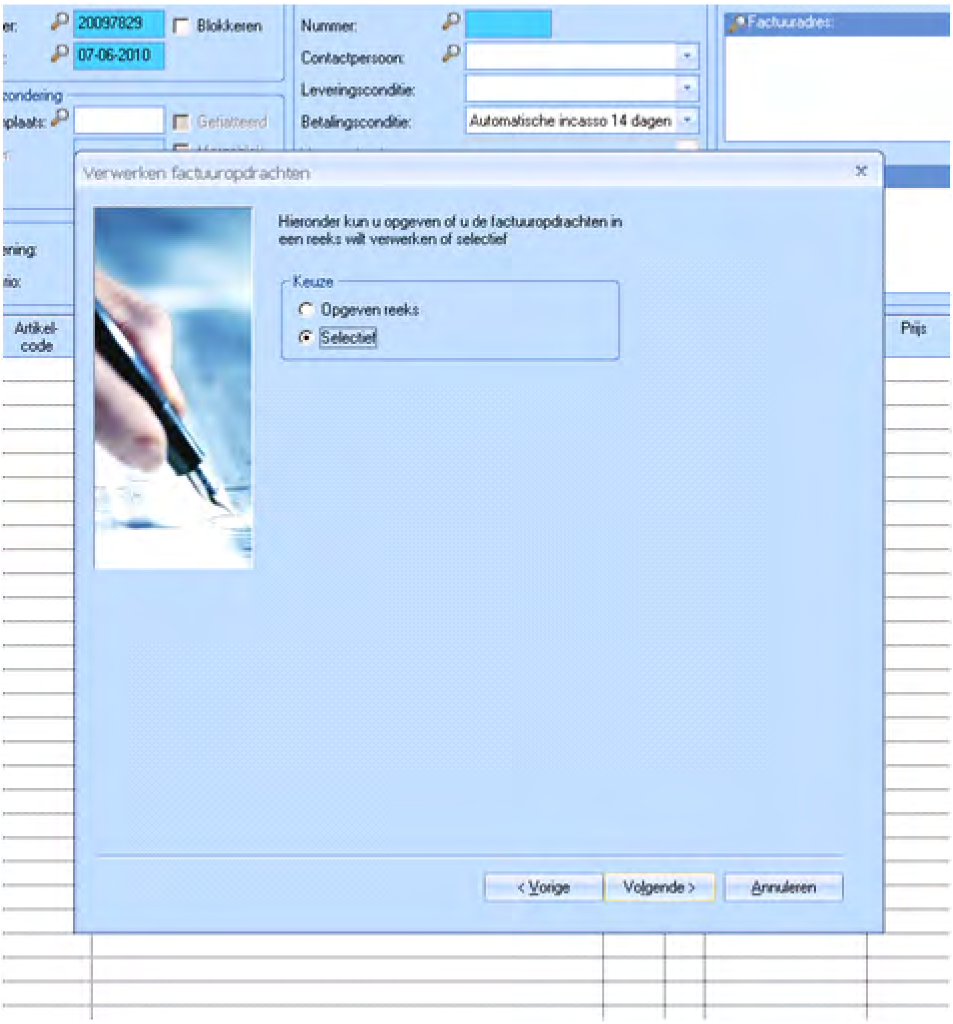
Factuurdatum: 07-06-2010

☑ Factuuropdrachten

☐ Abonnementopdrachten

☐ Uuropdrachten

☐ Projectopdrachten



Verwerken factuuropdrachten

Hieronder kun u opgeven of u de factuuropdrachten in een reeks wilt verwerken of selectief

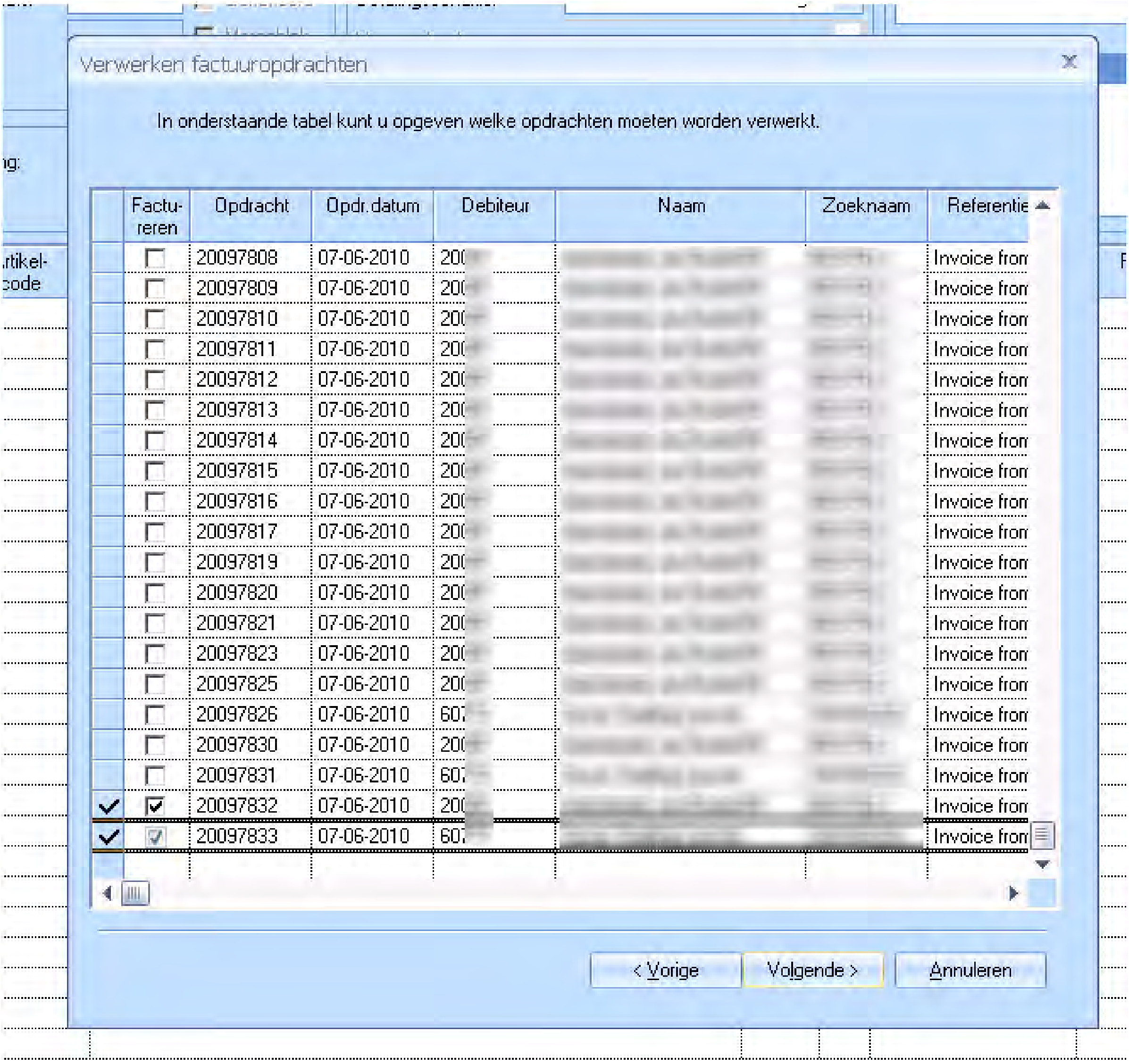
Keuze

○ Opgeven reeks

● Selectief

Betalingsconditie: Automatische incasso 14 dagen

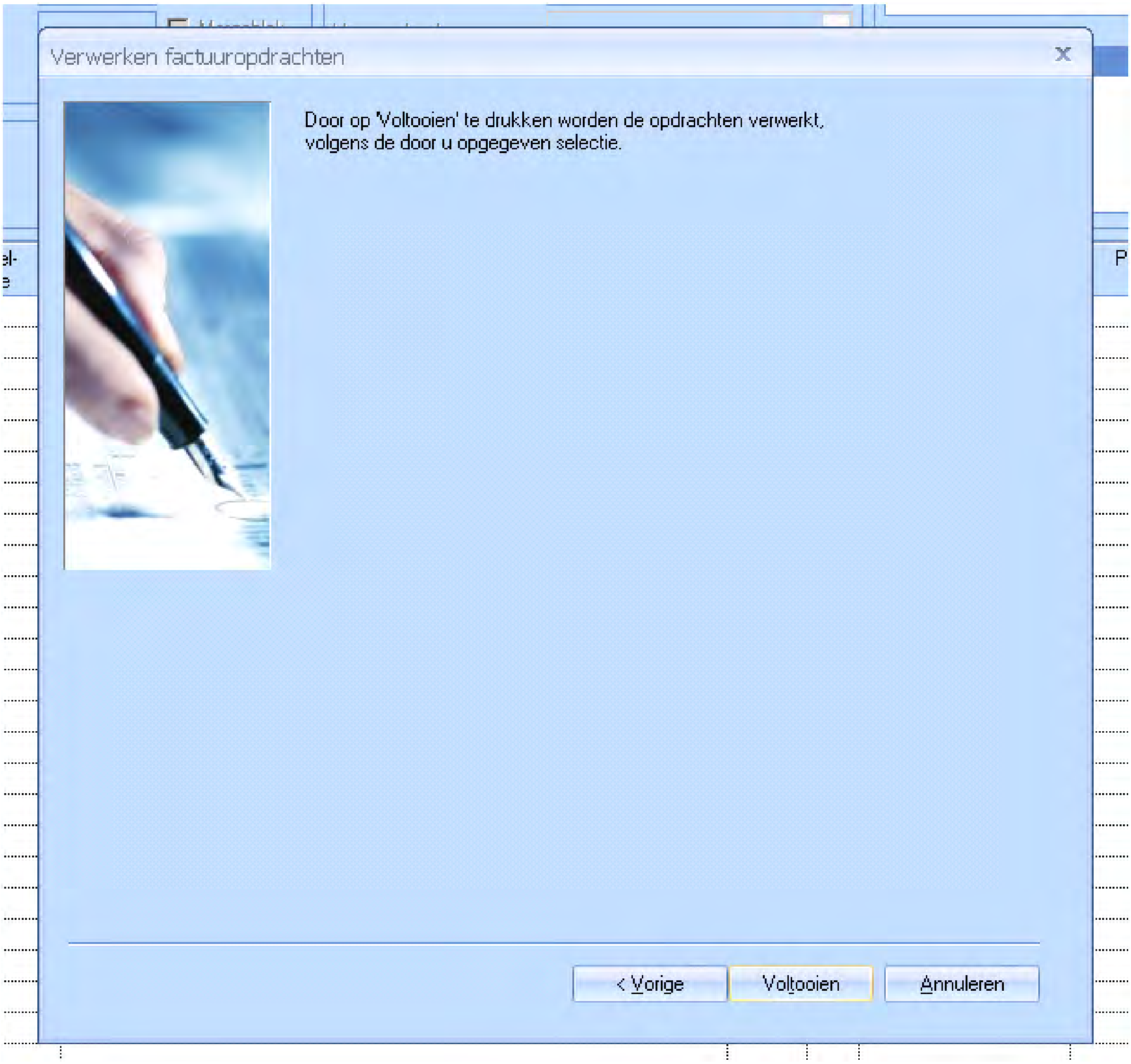
20097829
☐ Blokkeren
07-06-2010
Nummer:
Contactpersoon:
Leveringsconditie:
Factuuradres:
Gefiatteerd
Artikel-code
Prijs
< Vorige
Volgende >
Annuleren



Verwerken factuuropdrachten

In onderstaande tabel kunt u opgeven welke opdrachten moeten worden verwerkt.

	Factu-reren	Opdracht	Opdr.datum	Debiteur	Naam	Zoeknaam	Referentie
	☐	20097808	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097809	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097810	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097811	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097812	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097813	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097814	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097815	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097816	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097817	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097819	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097820	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097821	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097823	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097825	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097826	07-06-2010	607[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097830	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
	☐	20097831	07-06-2010	607[redacted]	[redacted]	[redacted]	Invoice from
✓	☑	20097832	07-06-2010	200[redacted]	[redacted]	[redacted]	Invoice from
✓	☑	20097833	07-06-2010	607[redacted]	[redacted]	[redacted]	Invoice from



Door op 'Voltooien' te drukken worden de opdrachten verwerkt, volgens de door u opgegeven selectie.

1.5.7.3 Errors

ActiveX object for MBO.Administration has not been found

While running the vbs script you get the message that the ActiveX object MBO.Administration cannot be created, make sure that the 32-bit winscript engine is used. For example:

‘%windir%\syswow64\wscript SCRIPT.vbs’

Merant ODBC message ‘Optional feature not implemented’

If the Merant ODBC gives the message ‘Optional feature not implemented’ when connecting to the administration, make sure that the administration exists in the Unit4 Multivers user interface. Verify also that the administration can be opened.

1.5.8 King interface

Invantive Estate is compatible with the accounting package KING. The interface works in two directions:

- Concept invoices from Invantive Estate can be imported in KING and from there they may be changed and invoiced.

- Final invoices and other general ledger mutations from KING can be imported intoInvantive Estate.

1.5.8.1 Installation KING Interface

Execute the following steps to be able to use the KING gateway:

- Execute from addons/king interface the file ‘king_install.sql’ under the scheme under which the application was installed.
- Copy the xml, ktr and kjb files from the king interface map to the map 'etl'.
- Copy the king.config file to the home directory of the user under which the Apache Tomcat service runs.
- Modify the king.config file.
- All Organisations should have the debit number from KING as code.

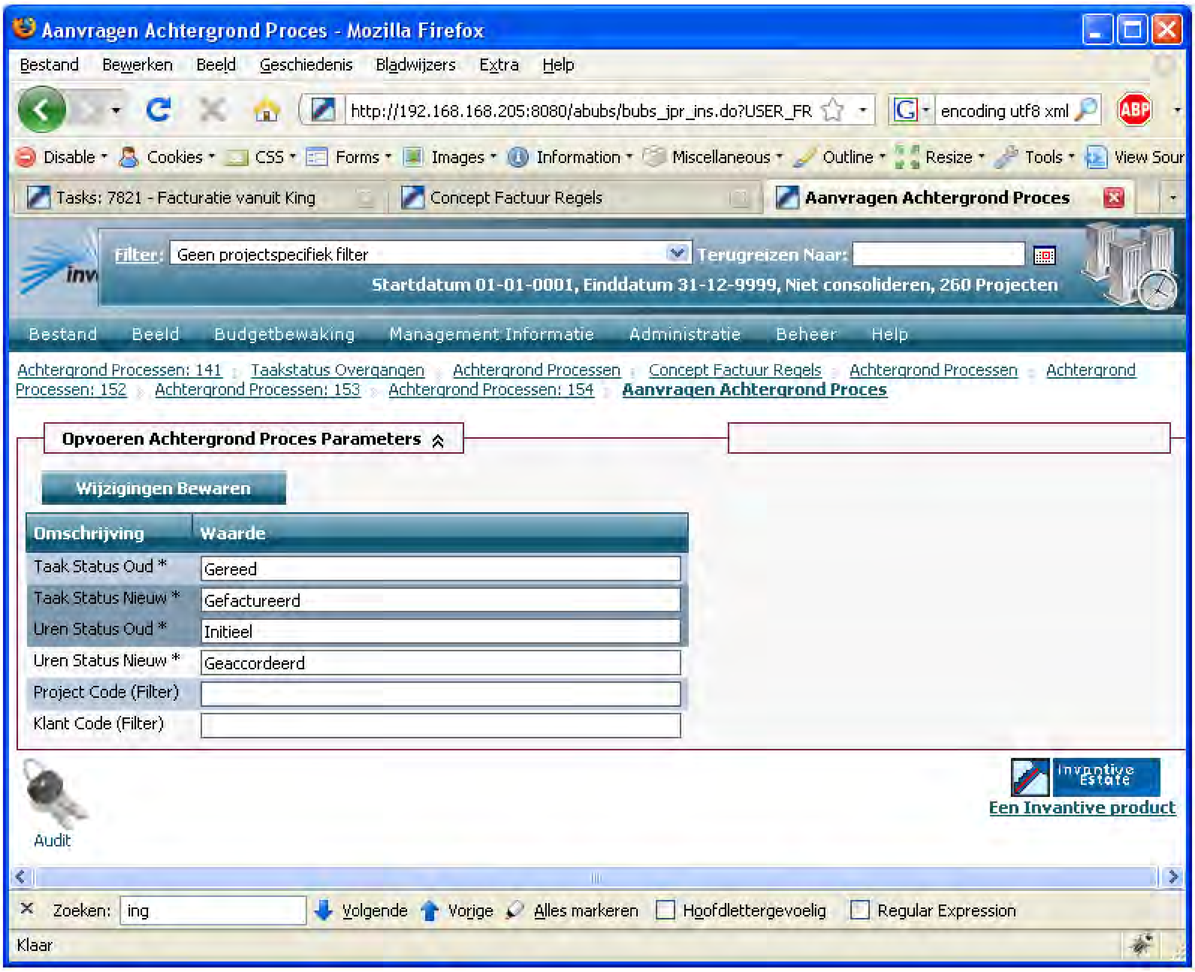
1.5.8.2 To KING

The following sections describe how you can transfer data to KING.

Concept Invoices

The import of concept invoices to King is described here. A background script is available for the invoicing of hours to processes and projects and fixed price processes. This ensures that the invoice data will be stored as concept invoice lines. The daily process is as follows:

- Go to the screen 'Submit Background Job' 220.
- Select the background script ‘Invoicing: Process all parts’.
- Enter the parameters as follows:


Aanvragen Achtergrond Proces - Mozilla Firefox
Bestand Bewerken Beeld Geschiedenis Bladwijzers Extra Help
http://192.168.168.205:8080/abubs/bubs_jpr_ins.do?USER_FR
encoding utf8 xml
Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Sour
Tasks: 7821 - Facturatie vanuit King
Concept Factuur Regels
Aanvragen Achtergrond Proces
Bestand Beeld Budgetbewaking Management Informatie Administratie Beheer Help
Achtergrond Processen: 141 › Taakstatus Overgangen › Achtergrond Processen › Concept Factuur Regels › Achtergrond Processen › Achtergrond Processen: 152 › Achtergrond Processen: 153 › Achtergrond Processen: 154 › Aanvragen Achtergrond Proces
Wijzigingen Bewaren
Audit
invantive Estate
Een Invantive product
Volgende Vorige Alles markeren ☐ Hoofdlettergevoelig ☐ Regular Expression
Klaar

Filter: Geen projectspecifiek filter

Terugreizen Naar:

Startdatum 01-01-0001, Einddatum 31-12-9999, Niet consolideren, 260 Projecten

Opvoeren Achtergrond Proces Parameters

Omschrijving	Waarde
Taak Status Oud *	Gereed
Taak Status Nieuw *	Gefactureerd
Uren Status Oud *	Initieel
Uren Status Nieuw *	Geaccordeerd
Project Code (Filter)	
Klant Code (Filter)	

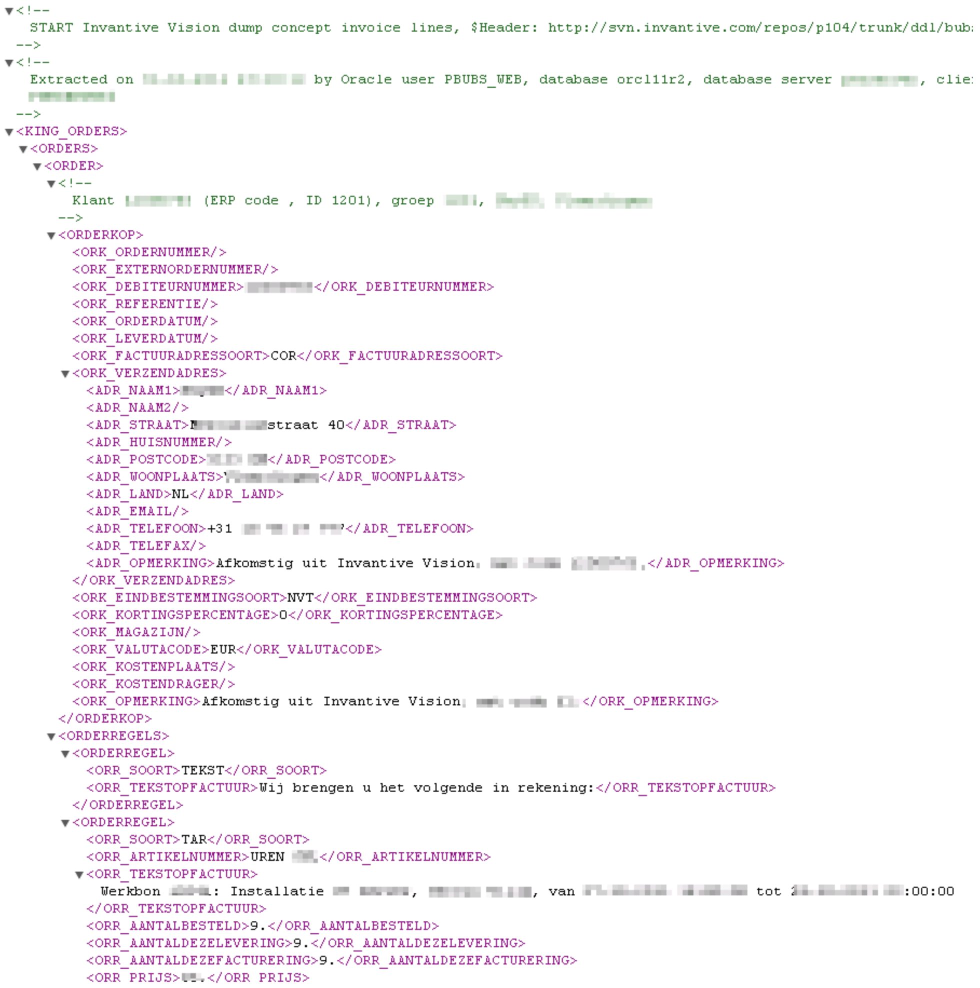
Zoeken: ing

- Wait until the process is successfully completed in the screen Background Jobs 220.
- Now you can check the concept invoices in the screen Concept Invoice Lines 132.

Import concept invoice lines in King

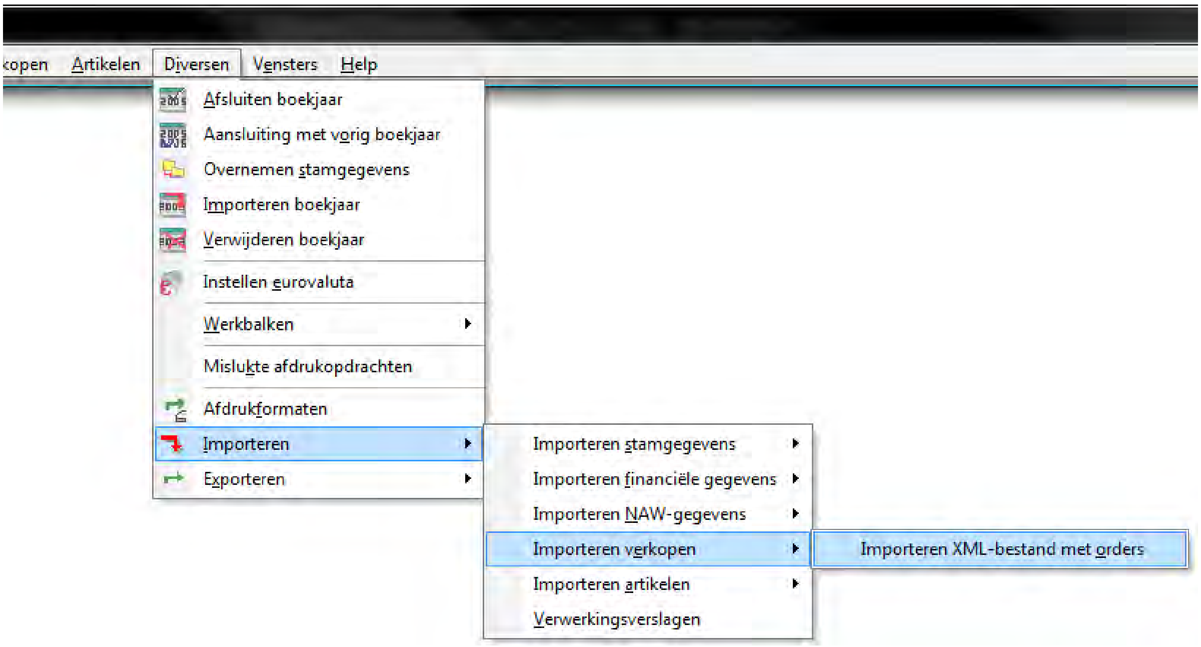
A background script is available for the invoicing of hours to processes and projects and fixed price processes. This ensures that the invoice data will be stored as concept invoice lines. The daily process is as follows:

- Go to the screen 'Submit Background Job' 220.
- Select the background script ‘King: Extraction sales orders’.
- Wait until the process is successfully completed in the screen Background Jobs 220.
- The output file is an XML file, such as:

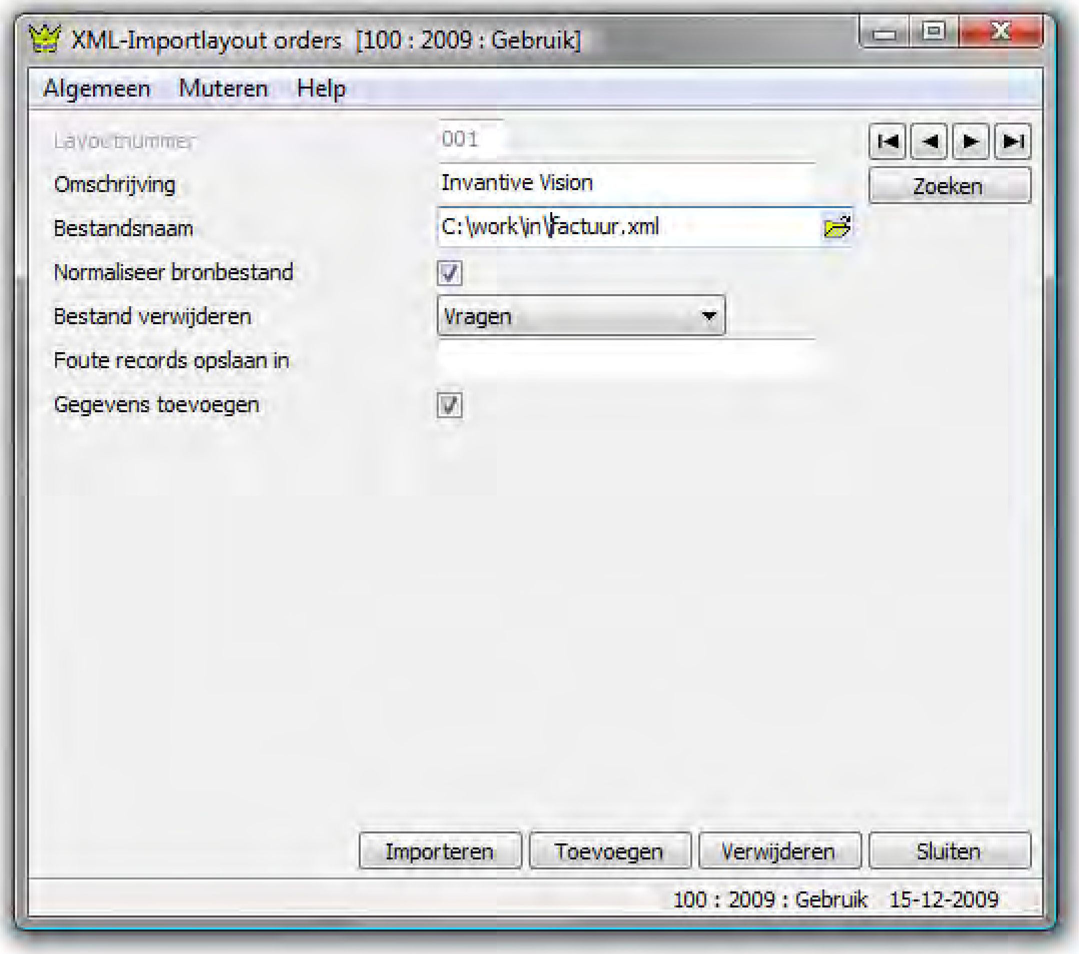


```
▼<!--
   START Invantive Vision dump concept invoice lines, $Header: http://svn.invantive.com/repos/p104/trunk/ddl/bub:
 -->
▼<!--
   Extracted on [redacted] [redacted] by Oracle user PBUBS_WEB, database orcl11r2, database server [redacted], clie:
   [redacted]
 -->
▼<KING_ORDERS>
  ▼<ORDERS>
    ▼<ORDER>
      ▼<!--
         Klant [redacted] (ERP code , ID 1201), groep [redacted], [redacted] [redacted]
       -->
      ▼<ORDERKOP>
         <ORK_ORDERNUMMER/>
         <ORK_EXTERNORDERNUMMER/>
         <ORK_DEBITEURNUMMER>[redacted]</ORK_DEBITEURNUMMER>
         <ORK_REFERENTIE/>
         <ORK_ORDERDATUM/>
         <ORK_LEVERDATUM/>
         <ORK_FACTUURADRESSOORT>COR</ORK_FACTUURADRESSOORT>
        ▼<ORK_VERZENDADRES>
           <ADR_NAAM1>[redacted]</ADR_NAAM1>
           <ADR_NAAM2/>
           <ADR_STRAAT>[redacted]straat 40</ADR_STRAAT>
           <ADR_HUISNUMMER/>
           <ADR_POSTCODE>[redacted]</ADR_POSTCODE>
           <ADR_WOONPLAATS>[redacted]</ADR_WOONPLAATS>
           <ADR_LAND>NL</ADR_LAND>
           <ADR_EMAIL/>
           <ADR_TELEFOON>+31 [redacted]</ADR_TELEFOON>
           <ADR_TELEFAX/>
           <ADR_OPMERKING>Afkomstig uit Invantive Vision, [redacted].</ADR_OPMERKING>
         </ORK_VERZENDADRES>
         <ORK_EINDBESTEMMINGSOORT>NVT</ORK_EINDBESTEMMINGSOORT>
         <ORK_KORTINGSPERCENTAGE>0</ORK_KORTINGSPERCENTAGE>
         <ORK_MAGAZIJN/>
         <ORK_VALUTACODE>EUR</ORK_VALUTACODE>
         <ORK_KOSTENPLAATS/>
         <ORK_KOSTENDRAGER/>
         <ORK_OPMERKING>Afkomstig uit Invantive Vision, [redacted]</ORK_OPMERKING>
       </ORDERKOP>
      ▼<ORDERREGELS>
        ▼<ORDERREGEL>
           <ORR_SOORT>TEKST</ORR_SOORT>
           <ORR_TEKSTOPFACTUUR>Wij brengen u het volgende in rekening:</ORR_TEKSTOPFACTUUR>
         </ORDERREGEL>
        ▼<ORDERREGEL>
           <ORR_SOORT>TAR</ORR_SOORT>
           <ORR_ARTIKELNUMMER>UREN [redacted]</ORR_ARTIKELNUMMER>
          ▼<ORR_TEKSTOPFACTUUR>
             Werkbon [redacted]: Installatie [redacted], [redacted], van [redacted] tot [redacted]:00:00
           </ORR_TEKSTOPFACTUUR>
           <ORR_AANTALBESTELD>9.</ORR_AANTALBESTELD>
           <ORR_AANTALDEZELEVERING>9.</ORR_AANTALDEZELEVERING>
           <ORR_AANTALDEZEFACTURERING>9.</ORR_AANTALDEZEFACTURERING>
           <ORR_PRIJS>[redacted].</ORR_PRIJS>
```

- You can now retrieve the XML file as an attachment of the background job and import it into KING using the following menu:


kopen
Artikelen
Diversen
Vensters
Help
Afsluiten boekjaar
Aansluiting met vorig boekjaar
Overnemen stamgegevens
Importeren boekjaar
Verwijderen boekjaar
Instellen eurovaluta
Werkbalken
Mislukte afdrukopdrachten
Afdrukformaten
Importeren
Exporteren
Importeren stamgegevens
Importeren financiële gegevens
Importeren NAW-gegevens
Importeren verkopen
Importeren artikelen
Verwerkingsverslagen
Importeren XML-bestand met orders

- The XML file can be saved, for example, in the folder ‘out’ of the server.
- Change the options for import as follows:


XML-Importlayout orders [100 : 2009 : Gebruik]
Algemeen
Muteren
Help
Zoeken
Importeren
Toevoegen
Verwijderen
Sluiten

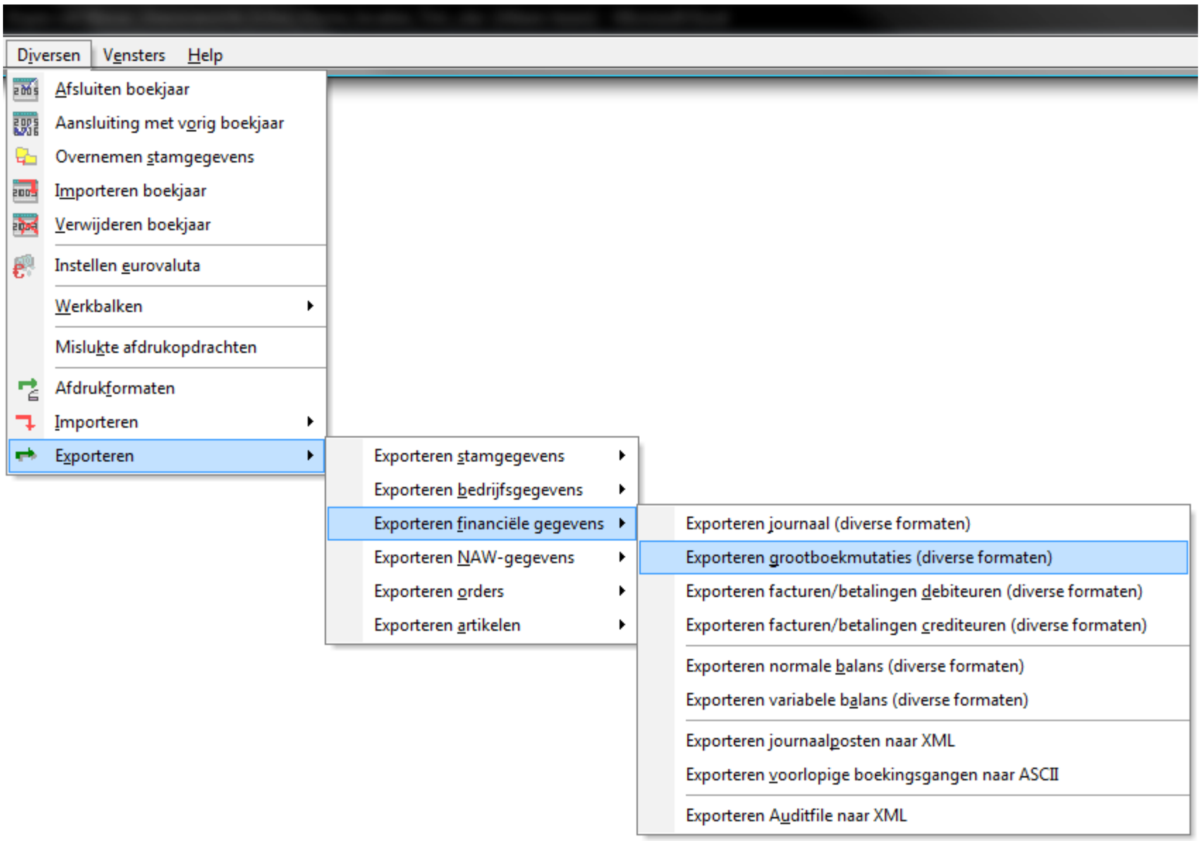
Layoutnummer	001
Omschrijving	Invantive Vision
Bestandsnaam	C:\work\in\factuur.xml
Normaliseer bronbestand	☑
Bestand verwijderen	Vragen
Foute records opslaan in	
Gegevens toevoegen	☑

100 : 2009 : Gebruik 15-12-2009

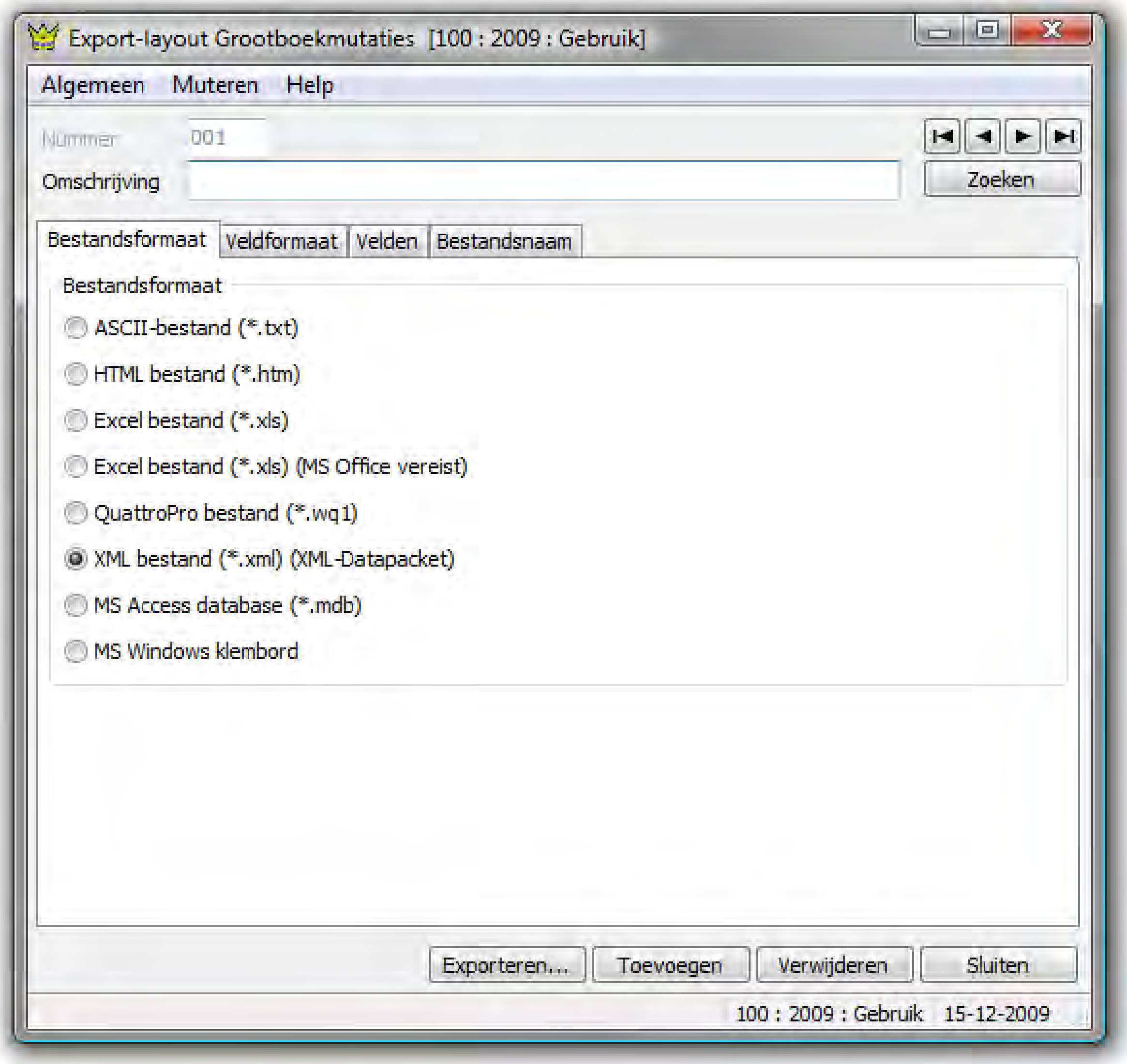
1.5.8.3 From KING

The import of invoices and general ledger mutations from KING to Invantive Estate is described here. The processing is as follows:

- Compose for all accounting years in KING an XML file with the general ledger mutations. For closed accounting years, this needs to be done only once, for current financial years this should be done repeatedly until the year is closed. The compilation is done using the following menu option in KING:


Diversen
Vensters
Help
Afsluiten boekjaar
Aansluiting met vorig boekjaar
Overnemen stamgegevens
Importeren boekjaar
Verwijderen boekjaar
Instellen eurovaluta
Werkbalken
Mislukte afdrukopdrachten
Afdrukformaten
Importeren
Exporteren
Exporteren stamgegevens
Exporteren bedrijfsgegevens
Exporteren financiële gegevens
Exporteren NAW-gegevens
Exporteren orders
Exporteren artikelen
Exporteren journaal (diverse formaten)
Exporteren grootboekmutaties (diverse formaten)
Exporteren facturen/betalingen debiteuren (diverse formaten)
Exporteren facturen/betalingen crediteuren (diverse formaten)
Exporteren normale balans (diverse formaten)
Exporteren variabele balans (diverse formaten)
Exporteren journaalposten naar XML
Exporteren voorlopige boekingsgangen naar ASCII
Exporteren Auditfile naar XML

- Select the next settings:


Export-layout Grootboekmutaties [100 : 2009 : Gebruik]
Algemeen
Muteren
Help
Zoeken
Bestandsformaat
Veldformaat
Velden
Bestandsnaam
Exporteren...
Toevoegen
Verwijderen
Sluiten

Nummer 001

Omschrijving

Bestandsformaat

○ ASCII-bestand (*.txt)

○ HTML bestand (*.htm)

○ Excel bestand (*.xls)

○ Excel bestand (*.xls) (MS Office vereist)

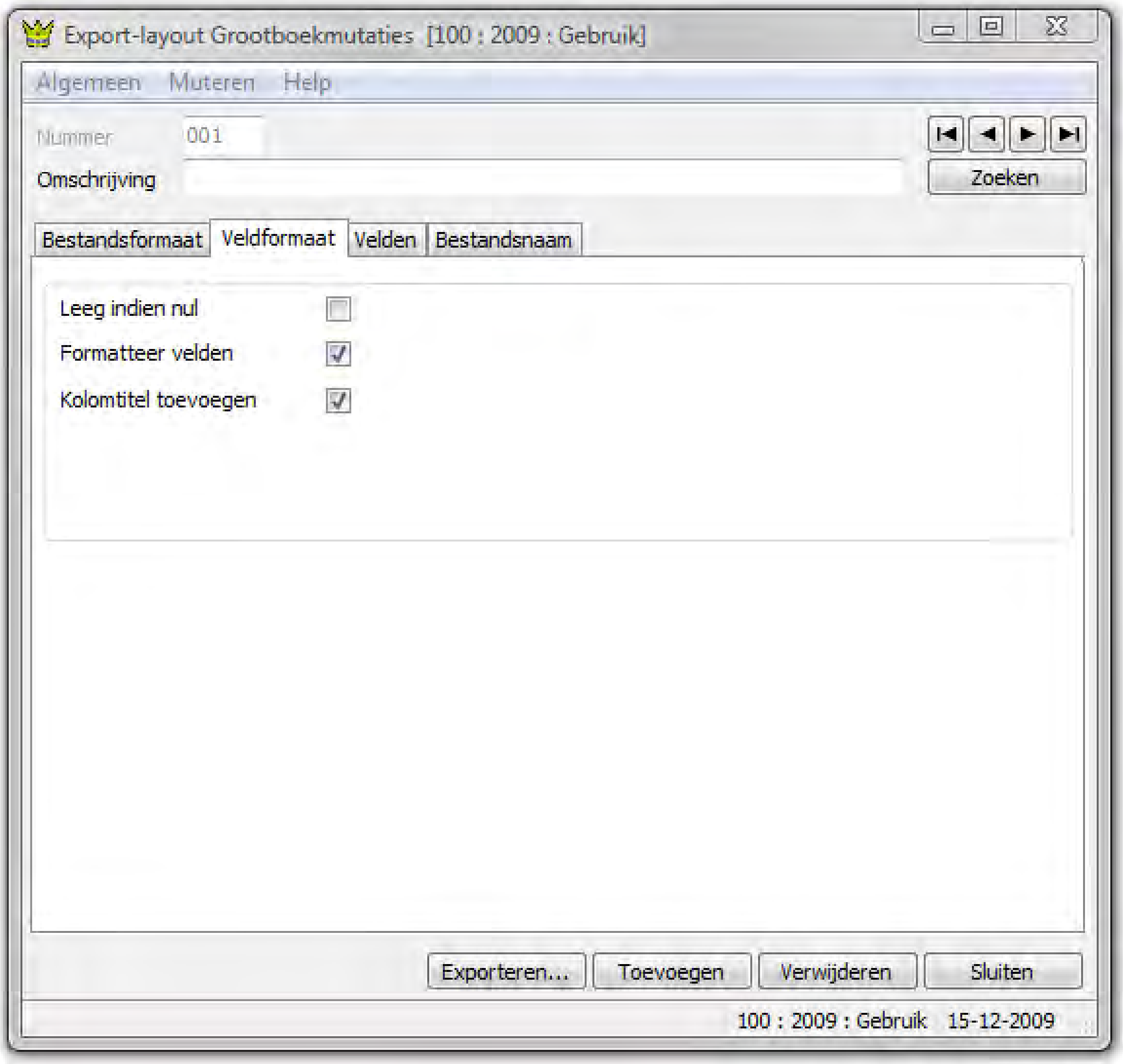
○ QuattroPro bestand (*.wq1)

● XML bestand (*.xml) (XML-Datapacket)

○ MS Access database (*.mdb)

○ MS Windows klembord

100 : 2009 : Gebruik 15-12-2009


Export-layout Grootboekmutaties [100 : 2009 : Gebruik]
Algemeen
Muteren
Help
Zoeken
Bestandsformaat
Veldformaat
Velden
Bestandsnaam
Exporteren...
Toevoegen
Verwijderen
Sluiten

Nummer 001

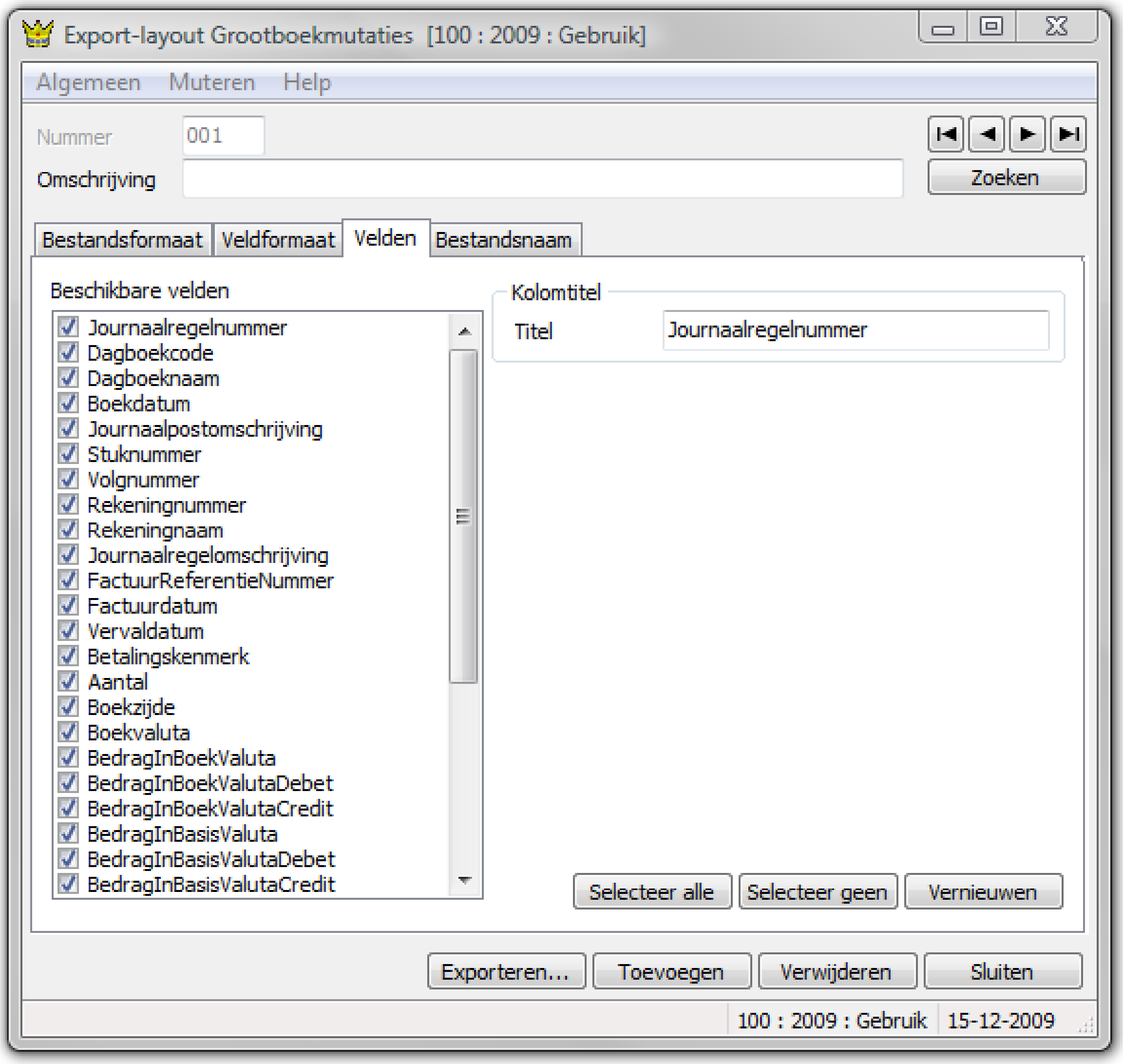
Omschrijving

Leeg indien nul ☐

Formatteer velden ☑

Kolomtitel toevoegen ☑

100 : 2009 : Gebruik 15-12-2009


Export-layout Grootboekmutaties [100 : 2009 : Gebruik]
Algemeen
Muteren
Help
Zoeken
Bestandsformaat
Veldformaat
Velden
Bestandsnaam
Selecteer alle
Selecteer geen
Vernieuwen
Exporteren...
Toevoegen
Verwijderen
Sluiten

Nummer: 001

Omschrijving:

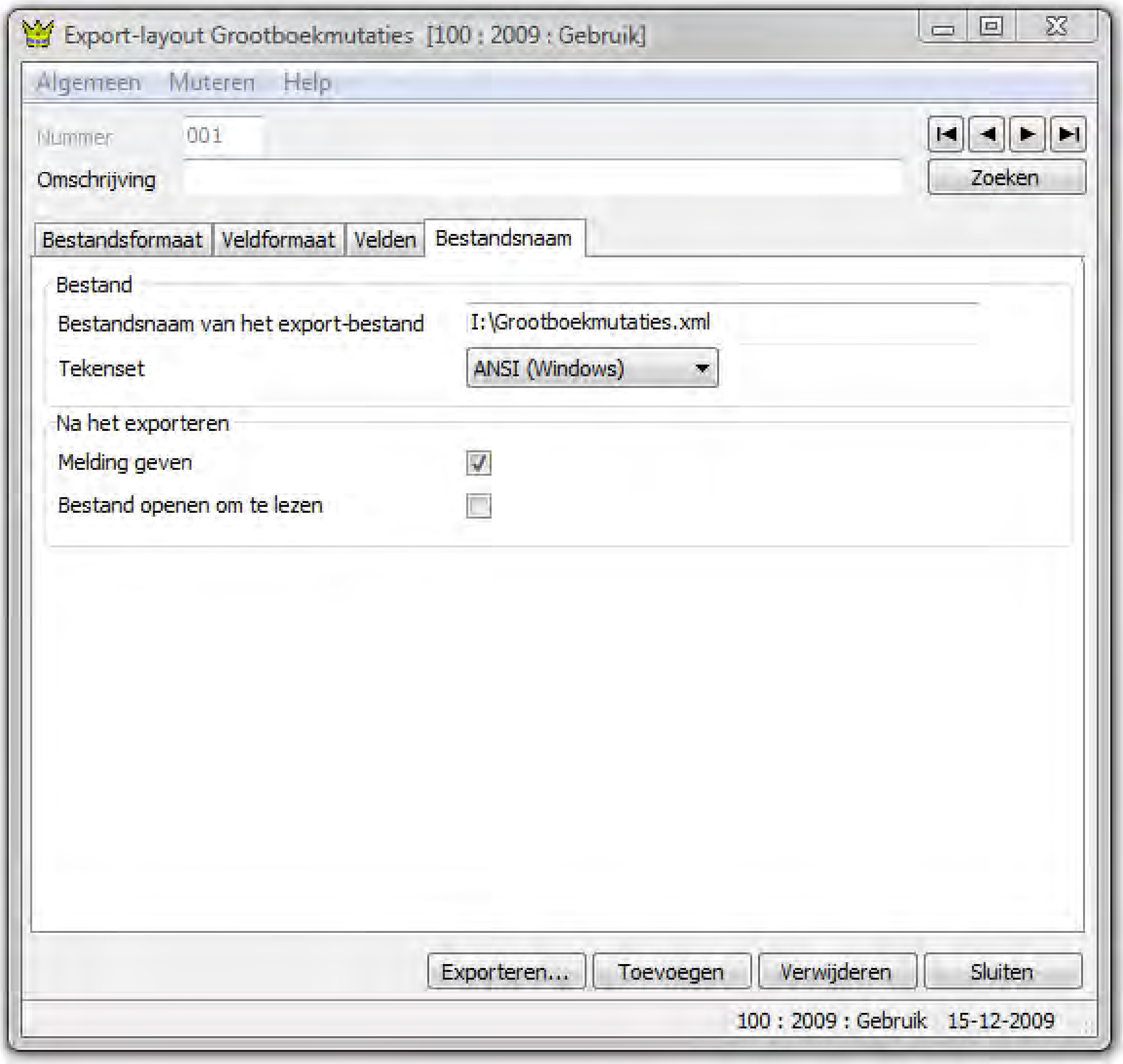
Beschikbare velden

- ☑ Journaalregelnummer
- ☑ Dagboekcode
- ☑ Dagboeknaam
- ☑ Boekdatum
- ☑ Journaalpostomschrijving
- ☑ Stuknummer
- ☑ Volgnummer
- ☑ Rekeningnummer
- ☑ Rekeningnaam
- ☑ Journaalregelomschrijving
- ☑ FactuurReferentieNummer
- ☑ Factuurdatum
- ☑ Vervaldatum
- ☑ Betalingskenmerk
- ☑ Aantal
- ☑ Boekzijde
- ☑ Boekvaluta
- ☑ BedragInBoekValuta
- ☑ BedragInBoekValutaDebet
- ☑ BedragInBoekValutaCredit
- ☑ BedragInBasisValuta
- ☑ BedragInBasisValutaDebet
- ☑ BedragInBasisValutaCredit

Kolomtitel

Titel: Journaalregelnummer

100 : 2009 : Gebruik | 15-12-2009


Export-layout Grootboekmutaties [100 : 2009 : Gebruik]
Algemeen
Muteren
Help
Zoeken
Bestandsformaat
Veldformaat
Velden
Bestandsnaam
Exporteren...
Toevoegen
Verwijderen
Sluiten

Nummer: 001

Omschrijving:

Bestand

Bestandsnaam van het export-bestand: I:\Grootboekmutaties.xml

Tekenset: ANSI (Windows)

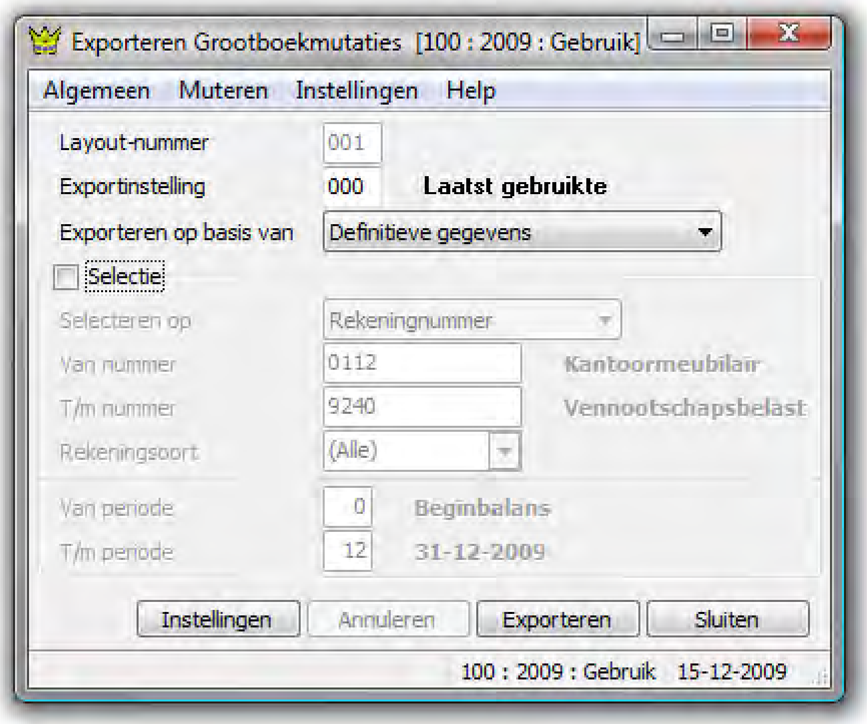
Na het exporteren

Melding geven ☑

Bestand openen om te lezen ☐

100 : 2009 : Gebruik 15-12-2009

- Then export the file:



Layout-nummer 001

Exportinstelling 000 **Laatst gebruikte**

Exporteren op basis van Definitieve gegevens

☐ Selectie

Selecteren op Rekeningnummer

Van nummer 0112 Kantoormeubilair

T/m nummer 9240 Vennootschapsbelast

Rekeningsoort (Alle)

Van periode 0 Beginbalans

T/m periode 12 31-12-2009

100 : 2009 : Gebruik 15-12-2009

- Save the files as ‘gbmut<ACCOUNTINGYEAR>.xml’ in the folder ‘in’ on the server.
- Run the background job ‘Manage: Run ETL’.
- Add the parameter ‘../etl/king2bubs general ledger.kjb’.
- After execution the result can be found in the log file of the background job and in the screen ERP Jobs 246.

1.5.9 Asterisk VOIP Interface

Outgoing Calls

You can fill in the profile options that start with bubs-interface-asterisk.

On the Asterisk server you will need to specify in manager.conf in the admin section that you are allowed to connect with database server connection using permit and deny, for example for the new user 'invantive':

```
[invantive]
secret=amplevoorbeeld
deny=0.0.0.0/0.0.0.0
permit=192.168.172.26/255.255.255.255
read=originate
write=originate
```

You can test this by making contact with telnet on port 5038 and executing the following statements:

```
Action: Login
Username: invantive
Secret: amplevoorbeeld
<ENTER>
```

You then combine this preferably with 'asterisk -rvvvvvvvvvvvv' on the command prompt.

Registration Conversations

Invantive Estate can be integrated with Asterisk. Final result of this integration is that the call-detail-records (CDRs) after the end of a conversation are saved from Asterisk in Invantive Estate as conversations.

To do so, follow these steps:

- Create a user in Invantive Estate via Persons 97.
- Create an associated Oracle user and connect it to the Invantive Estate-user.
- Give the Oracle user reading- and insert-rights on bubs_asterisk_cdr_r.
- Make it possible for Asterisk to store CDRs in Oracle.
- Install Oracle Instantclient Basic and Oracle Instantclient SQL*Plus for this.
- Configure the Oracle Instantclient in such a way that it is possible to connect with SQL*Plus from the Asterisk server with the Invantive Estate-environment.
- Install and configure unixODBC for the connection between Asterisk and ODBC. The ODBC.INI will then look, for example, like this:

```
 [PRD11R1]
Application Attributes = T
Attributes = W
BatchAutocommitMode = IfAllSuccessful
BindAsFLOAT = F
CloseCursor = F
DisableDPM = F
DisableMTS = T
Driver = Oracle
DSN = PRD11R1
EXECSchemaOpt =
EXECSyntax = T
Failover = T
FailoverDelay = 10
FailoverRetryCount = 10
FetchBufferSize = 64000
ForceWCHAR = F
Lobs = T
Longs = T
MetadataIdDefault = F
QueryTimeout = T
ResultSets = T
ServerName = prd11r1.invantive.local
SQLGetData extensions = F
Translation DLL =
Translation Option = 0
DisableRULEHint = T
UserID =
```

- The odbcinst.ini will then look, for example, like this:

```
 [Oracle]
Description     = Oracle
Driver = /usr/lib/libsqora.so.11.1
Setup           =
FileUsage       =
CPTimeout       =
CPReuse         =
[ODBC]
Trace=No
TraceFile=/tmp/sql.log
ForceTrace=No
Pooling=No
```

- Configure Asterisk CDRs to save the CDRs in Oracle to write the following contents in cdr_odbc.conf:

```
;
; cdr_odbc.conf
;

[global]
dsn=PRD11R1
username=ESTATE-USERNAME
password=ESTATE-PASSWORD
loguniqueid=yes
dispositionstring=yes
table=bubs_asterisk_cdr_r
;usegmtime=no             ; set to "yes" to log in GMT
```

The file res_odbc.conf should look like:

```
;
; odbc setup file
;
; ENV is a global set of environmental variables that will get
set.
; Note that all environmental variables can be seen by all con-
nections,
; so you can't have different values for different connections.
[ENV]
ORACLE_HOME=>/var/opt/oracle
TNS_ADMIN=>/var/opt/oracle/network/admin
NLS_LANG=>AMERICAN_AMERICA.AL32UTF
; Please note that UTF16 will be used by unixODBC, irrespective
of what you tell above.

[PRD11R1]
enabled=>yes
dsn=>PRD11R1
username=>ESTATE-USERNAME
password=>ESTATE-PASSWORD
pre-connect=>yes
```

1.5.10 Customised User Interface

This chapter describes how to build your own user interface, for example, with the help of Microsoft Excel or Microsoft Access.

1.5.10.1 Information Exchange

Invantive Estate enables you to combine data coming from different administrations. These administrations can be fed as desired with data from within the application itself or with data primarily stored somewhere else. The functionality within Invantive Estate itself will normally be used:

- if the organization has no administration of these data yet, and

- the functionality of Invantive Estate meets the requirements.

The functionality of Invantive Estate in the area of the administrations is limited: it is, for example, not meant to enter a full purchase administration with approvals within Invantive Estate. It is recommended to purchase a specialized application in case there are more functional needs.

The remaining chapters describe how the data within Invantive Estate can be saved, changed, and viewed. This chapter describes how data can be loaded from other administrations via automised methods.

Example

The application structure for an own user interface is described in Structure.

In this example invoices are loaded into a staging table from SAP nad then incorporated into the application.

We chose in this example to implement SQL and PL/SQL, but similar functionality can be achieved with any development environment (for example, Microsoft .Net, Informatica PowerCenter or Pentaho Data Integration) which can load data into the database.

Make a table that will contain the full collection of invoices:

```
create table xxsap_in_ftr
( ftr_nummer                    number(15)          not null
, ftr_datum_gefactureerd        date                not null
, lvr_nummer                    number(15)          not null
, ftr_orig_system_reference     varchar2(240 char)
, laad_status                   char(1 byte)
, laad_melding                  varchar2(2000 char)
, datum_geladen                 date                not null
, datum_aangemaakt              date                not null
)
tablespace xxsap
/


create index xxsap_ifr_n1 on xxsap_in_ftr
( ftr_nummer
)
tablespace xxsap
/


create unique index xxsap_ifr_nk on xxsap_in_ftr
( ftr_orig_system_reference
)
tablespace xxsap
/
```

Make a stored package in Oracle PL/SQL which will try to add the data in the just created table to the existing data:

```
create or replace package xxsap#in_ftr
as
```

```
/*
* $Header: http://svn.invantive.com/repos/p104/trunk/help/nl/ma-
nual/Topics/interfacing-voorbeeld.xml 19891 2012-10-09 13:23:03Z
gle3 $
*
* (C) Copyright 2004-2012 Invantive Software BV, the Nether-
lands. All rights reserved.
*/
procedure verwerk
;
end;
/
create or replace package body xxsap#in_ftr
as
/*
* $Header: http://svn.invantive.com/repos/p104/trunk/help/nl/ma-
nual/Topics/interfacing-voorbeeld.xml 19891 2012-10-09 13:23:03Z
gle3 $
*
* (C) Copyright 2004-2012 Invantive Software BV, the Nether-
lands. All rights reserved.
*/
--
-- Verwerkt facturen.
--
-- Niet bestaande facturen worden toegevoegd.
-- Verwijderde facturen blijven bestaan.
-- Van gewijzigde facturen wordt niks overgenomen, aangezien de
onderliggende tabel
-- grootboek mutaties geen wijzigingen kan bevatten.
--
procedure verwerk
is
  --
  -- Alle facturen die nog toegevoegd moeten worden op basis van
nummer.
  --
  cursor c_ftr
  is
  select lfr.*
  ,      lfr.urowid lfr_urowid
  from   xxsap_in_ftr lfr
  where  not exists
         ( select 1
           from   bubs_facturen_v ftr
           where  1=1
           and    ftr.ftr_nummer = lfr.ftr_nummer
         )
  --
  -- Nog niet aangeboden voor laden.
  --
  and    laad_status is null
  ;
  l_cnt_ftr         number(15, 0);
  l_cnt_ftr_bad     number(15, 0);
  l_cnt_ftr_upd     number(15, 0);
  l_cnt_ftr_upd_bad number(15, 0);
  l_laad_status     xxsap_in_ftr.laad_status%type;
  l_laad_melding    xxsap_in_ftr.laad_melding%type;
  l_start_tijd      date := sysdate;
  l_job_seq         bubs_jobs_v.job_seq%type;
begin
  --
  -- Meldingen voor facturen die gewijzigd zijn na verwerking.
  --
  for r_changed in
  ( select ftr.ftr_nummer                    ftr_nummer_old
    ,      lfr.ftr_datum_gefactureerd        ftr_datum_gefactureerd_old
    ,      ftr.ftr_datum_gefactureerd        ftr_datum_gefactureerd_new
    ,      lfr.lvr_nummer                    lvr_nummer_old
    ,      ftr.lvr_nummer                    lvr_nummer_new
    ,      ftr.ftr_orig_system_reference ftr_orig_system_reference_old
    ,      ftr.ftr_datum_intrf_geladen   ftr_datum_intrf_geladen_old
    from   xxsap_in_ftr lfr
    join   bubs_facturen_v     ftr
    on     lfr.ftr_nummer = ftr.ftr_nummer
    where  1=1
    and    lfr.laad_status is null
    and    ( lfr.ftr_datum_gefactureerd <> ftr.ftr_datum_gefactureerd
             or
             lfr.lvr_nummer              <> ftr.lvr_nummer
           )
  )
  loop
    bubs_job_logging.create_job_melding
    ( substr
      ( 'De factuur met nummer '
        || r_changed.ftr_nummer_old
        || ' is gewijzigd in de primaire administratie na verwerking. Zie de volgende meldingen voor meer informatie.'
      , 1
      , 250
      )
    , 'Y'
    );
    bubs_job_logging.create_job_melding
    ( substr
      ( 'Datum gefactureerd was '
        || to_char(r_changed.ftr_datum_gefactureerd_old, 'dd-mm-yyyy')
        || ', nu '
        || to_char(r_changed.ftr_datum_gefactureerd_new, 'dd-mm-yyyy')
        || ', leverancier was '
        || r_changed.lvr_nummer_old
        || ' nu '
        || r_changed.lvr_nummer_new
        || '. Oorspronkelijke referentie '
        || r_changed.ftr_orig_system_reference_old
        || ', uitgewisseld '
        || to_char(r_changed.ftr_datum_intrf_geladen_old, 'dd-
mm-yyyy hh24:mi:ss')
      , 1
      , 250
      )
    , ‘N’
    );
  end loop;
  --
  -- Daadwerkelijke toevoeging.
  --
  <<ftr>>
  l_cnt_ftr     := 0;
  l_cnt_ftr_bad := 0;
  l_cnt_ftr_upd     := 0;
  l_cnt_ftr_upd_bad := 0;
  l_job_seq         := bubs_job_logging.get_current_job_seq;
  for r_ftr in c_ftr
  loop
    bubs_job_logging.create_job_melding('Laden factuur met num-
mer ' || r_ftr.ftr_nummer, 'N');
    begin
      insert into bubs_facturen_v
      ( ftr_nummer
      , ftr_datum_gefactureerd
      , lvr_nummer
      , ftr_orig_system_reference
      , ftr_datum_intrf_geladen
      , ftr_job_seq_geladen
      )
      values
      ( r_ftr.ftr_nummer
      , r_ftr.ftr_datum_gefactureerd
      , r_ftr.lvr_nummer
      , r_ftr.ftr_orig_system_reference
      , l_start_tijd
      , l_job_seq
      );
      l_laad_status := ‘V’;
      l_laad_melding := '';
    exception
      when others
      then
        bubs_job_logging.create_job_melding(substr('Laden mis-
lukt voor factuur met nummer: ' || r_ftr.ftr_nummer || '. Fout-
melding is ' || sqlerrm, 1, 250), 'Y');
        l_cnt_ftr_bad := l_cnt_ftr_bad + 1;
        l_laad_status := ‘F’;
        l_laad_melding := sqlerrm; /* Of dbms_utility.format_er-
ror_stack || dbms_utility.format_error_backtrace voor een volle-
dige call stack en foutmelding. */
    end;
    --
    -- Bijwerken laadstatus met uitkomsten van het toevoegen.
    --
    update xxsap_in_ftr
    set    laad_status   = l_laad_status
    ,      laad_melding  = l_laad_melding
    ,      datum_geladen = l_start_tijd
    where  urowid = r_ftr.lfr_urowid
    ;
    l_cnt_ftr := l_cnt_ftr + 1;
  end loop ftr;
  --
  -- Alle niet relevante data verwijderen, evenals succesvol
verwerkte data.
  -- Foutief verwerkte records worden na 1 maand verwijderd.
  --
  delete xxsap_in_ftr where laad_status is null;
  delete xxsap_in_ftr where laad_status = ‘V’;
  delete bubs_exact_laad_lvr where datum_geladen < add_m-
onths(sysdate, -1);
  commit;
  bubs_job_logging.create_job_melding('Succesvol verwerkte gege-
vens, evenals niet gewijzigde gegevens zijn verwijderd.', 'N');
  --
  -- Status overzicht.
  --
  bubs_job_logging.create_job_melding('Facturen toegevoegd: ' ||
to_char(l_cnt_ftr, '999G999G990'), 'N');
  bubs_job_logging.create_job_melding('- met foutmeldingen: ' ||
to_char(l_cnt_ftr_bad, '999G999G990'), 'N');
  bubs_job_logging.create_job_melding('Facturen gewijzigd : ' ||
to_char(l_cnt_ftr_upd, '999G999G990'), 'N');
  bubs_job_logging.create_job_melding('- met foutmeldingen: ' ||
to_char(l_cnt_ftr_upd_bad, '999G999G990'), 'N');
  commit;
end;
/
```

The following steps need to be taken in order to add new invoices:

- Load the data to the staging table xxsap_in_ftr from SAP, using an ETL tool like, for example, Kettle (open source), Microsoft Integration Services or Informatica PowerCenter.
- Start a query tool, such as SQL * Plus, Quest TOAD or Microsoft Access.
- Sign in with a stored procedure call, such as user ‘system’ that has access to all data. It is also possible to choose a different user, but then only data can be loaded from projects to which the respective user has write rights to:

```
begin
  bubs_session.set_session_info
  ( 'xxsap#in_ftr'                       /* Module. Invullen in-
dien bekend. */
```

```
  , 'interface'                          /* Actie. Invullen in-
dien bekend. */
  , 'system'                             /* Aanmeldcode van de
gebruiker. */
  , 'various'                            /* Momentele query. In-
vullen indien bekend. */
  , sys_Filter('userenv', 'ip_address') /* IP adres. Invullen
indien bekend. */
  , sys_Filter('userenv', 'host')       /* Hostnaam. Invullen
indien bekend. */
  , 'n/a'                                /* URL gekoppeld aan
verwerking. Invullen indien bekend. */
  , to_char(sysdate,'yyyymmddhh24miss')  /* Sessie ID. Invullen
 indien bekend. */
  );
end;
/
```

- Create a job by loading bubs_job_logging.create_job.

```
begin
  bubs_job_logging.job_logging
  ( 'xxsap.exe'
          /* Executable bestandsnaam. Invullen indien bekend. */
  , 'Interface die gegevens vanuit SAP overbrengt naar Invantive
Estate.' /* Omschrijving. Invullen indien bekend. */
  , 'xxsap_code'
          /* Code. Invullen indien bekend. */
  )
  ;
end;
/
```

  - Process the invoices by loading xxsap#in_ftr.verwerk.

```
begin
  xxsap#in_ftr.verwerk;
end;
/
```

  - Check the results of the process:

```
select *
from   xxsap_in_ftr
where  laad_status = ‘F’
/
```

1.5.10.2 Let Users Exchange Data Independently

The application Invantive Estate is standardly provided with a large amount of reports. Possibly you will have the need to compose your own reports, for instance with products such as Crystal Reports or Microsoft Access. Moreover, it may be necessary to apply your own mutations in the data. This can be easily done by following the next procedure in order to build a SQL connection.

Preparation Database Once Only

Onetime Action:

- Choose a unique prefix per Invantive Estate environment in the database. Often ‘P_’ is used for production and ‘A_’ for acceptance.
- Enter this prefix in the RDBMS User Prefix field in the screen Settings 336.
- Log on as user ‘system’ on the Oracle database.
- Execute the following statement (this usually happens during the installation):

```
grant execute on <APPLICATIE SCHEMA>.bubs_session to system
/
grant execute on <APPLICATIE SCHEMA>.itgen_maintain_my_synonyms
to system
/
```

- Create a trigger which takes care that during the login to the database also automatically is logged in to Invantive Estate if the user is registered in Invantive Estate:

```
create or replace trigger set_bubs_user after logon on database
begin
  --
  -- Log on to development environment if available and applica-
ble.
  --
  obubs.bubs_session.log_on_through_oracle;
  --
  -- Log on to test environment if available and applicable.
  --
  tbubs.bubs_session.log_on_through_oracle;
  --
  -- Log on to acceptance environment if available and applica-
ble.
  --
  abubs.bubs_session.log_on_through_oracle;
  --
  -- Log on to production environment if available and applica-
ble.
  --
  -- Caution: you will be logged on to multiple environments at
one time. Increased
  -- risk of data loss in production due to human error!
  --
  pbubs.bubs_session.log_on_through_oracle;
  --
  -- Option to automatically correct synonyms.
  -- Currently not possible due to DDL. Might become autonomous
in the future.
  --
  -- pbubs.itgen_maintain_my_synonyms('PBUBS');
exception
  when others
  then
    null;
    --
    -- To debug uncomment and: raise_application_error(-20163,
dbms_utility.format_error_stack || dbms_utility.format_error_-
backtrace);
```

```
    -- you might be having al32utf8 problems when using java
such as using ojdbc14 instead of ojdbc6.
    --
end;
/
```

- As an alternative to a real development environment, you can also use the following example:

```
create or replace trigger set_bubs_user after logon on database
begin
  if user = 'USR_HGO_BUBS'
  then
    execute immediate
    'begin'
    || ' usr_hgo_bubs.bubs_session.set_session_info'
    || '( ''toad.sql'''
    || ', ''install'''
    || ', ''system'''
    || ', ''various'''
    || ', coalesce(sys_context(''userenv'', ''ip_address''),
''?'')'
    || ', sys_context(''userenv'', ''host'')'
    || ', ''n/a'''
    || ', ''$Header: http://svn.invantive.com/repos/p104/trunk/
help/nl/manual/Topics/voorbereiding-database-eenmalig.xml 19891
2012-10-09 13:23:03Z gle3 $'' || to_char(sysdate,
''YYYYMMDDHH24MISS'')'
    || ');'
    || 'end;'
    ;
  end if;
end;
/
```

- In real development environments it is also easy to turn off project security via the screen Settings 336 or with:

```
update bubs_instellingen_v set isg_alle_pjt_zien_vlag='Y';
commit;
```

Preparation Database pro User

Per user:

- Fill out the field RDBMS User in the screen Persons 97.
- Create a scheme for personal use. All reports executed under this scheme have access to the same amount of information under the filter that is set. The Oracle schema name must be identical to the RDBMS User Prefix plus the value of the field RDBMS User (option 'E' when calling log_on_through_oracle) or the schema name has to be equal to the value of the field RDBMS User minus the RDBMS User Prefix (option 'O' when calling log_on_through_oracle). For example this can be done with (assuming the user RDBMS prefix 'P_' option and 'E'):

```
create user p_scotty
identified by p_scotty
default tablespace pbubs
temporary tablespace temp
```

```
/
```

- It is not recommended to use a shared central Oracle schema for all users unless it is not a problem when all reports can contain data of all projects and users do not affect each other with the changes in the filter.
- Assign to this scheme the application specific role for read and write access. This is standard ‘BUBS_USER’. This can be done by:

```
grant pbubs_user to p_scotty
/
```

- Alternatively you can make use of the application specific role for read access only. This is standard ‘BUBS_READER’.

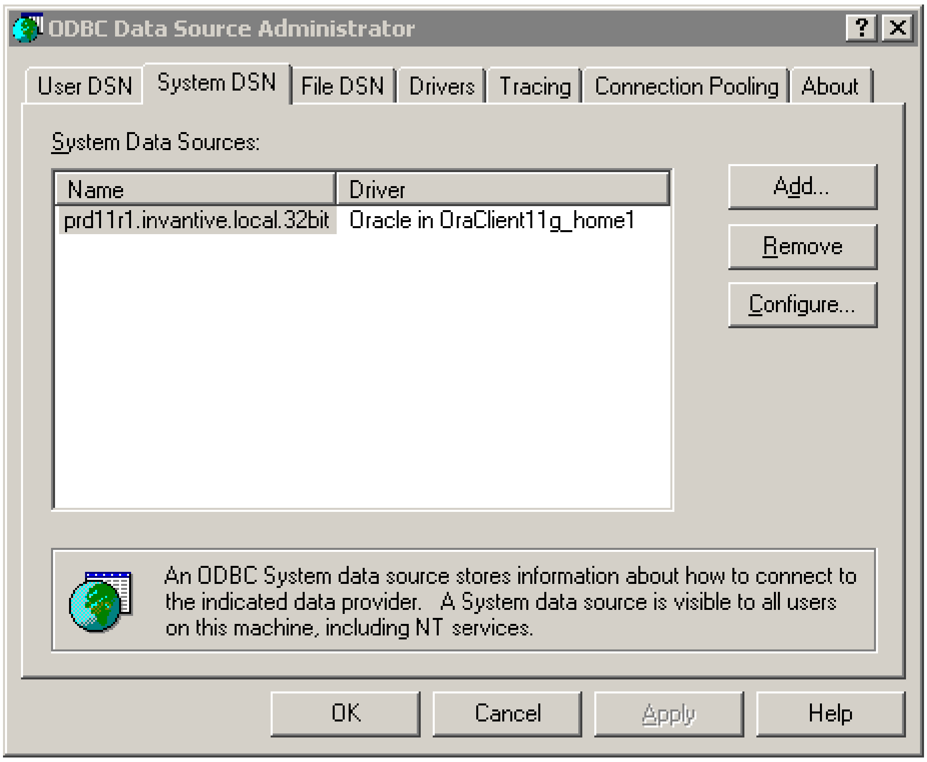
The connection can be based on JDBC, ODBC, OLEDB, native Oracle SQL * Net or other connection methods.

The connection can be tested by signing in as the new Oracle user and then check the contents of the column gbr_naam of the view bubs_mijn_rechten_r.

Preparation on PC

As an example the connection via ODBC is described:

- Determine whether the ODBC client is based on 32 or 64.
- Install the Oracle SQL * Net client appropriate for 32- or 64-bit and configure the network connection to be able to connect with SQL*Plus.
- Alternatively you can use the Oracle InstantClient appropriate to 32- or 64-bit.
- If an error occurs concerning the use of AL32UTF8: make sure that the NLS_LANG in the Windows register (HKLM\SOFTWARE\Oracle\KEY*\NLS_LANG) or the UNIX environment variable NLS_LANG is properly filled with the value‘DUTCH_THE NETHERLANDS.AL32UTF8’. If you use Oracle Instant Client, then there is no NLS_LANG in the Windows registry; that's why you need to define the NLS_LANG environment variable in Windows.
- Make an ODBC connection using the configuration screen:

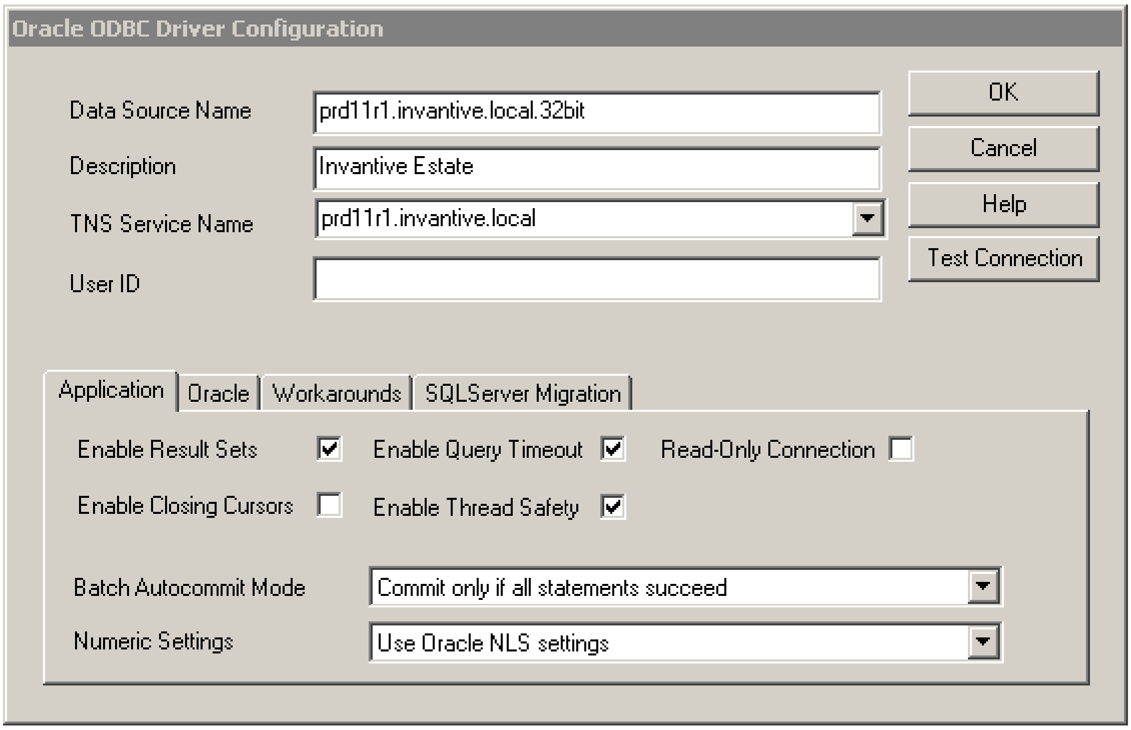


System Data Sources:

Name	Driver
prd11r1.invantive.local.32bit	Oracle in OraClient11g_home1

An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.

- For example, with the following settings:



Oracle ODBC Driver Configuration

Data Source Name: prd11r1.invantive.local.32bit
Description: Invantive Estate
TNS Service Name: prd11r1.invantive.local
User ID:

Application tab:
Enable Result Sets ☑
Enable Query Timeout ☑
Read-Only Connection ☐
Enable Closing Cursors ☐
Enable Thread Safety ☑
Batch Autocommit Mode: Commit only if all statements succeed
Numeric Settings: Use Oracle NLS settings

OK
Cancel
Help
Test Connection
Application
Oracle
Workarounds
SQLServer Migration

- Test the connection using a personal account that is created as described above.

Example Connection Microsoft Access

- Start the ODBC client (for example Microsoft Access):

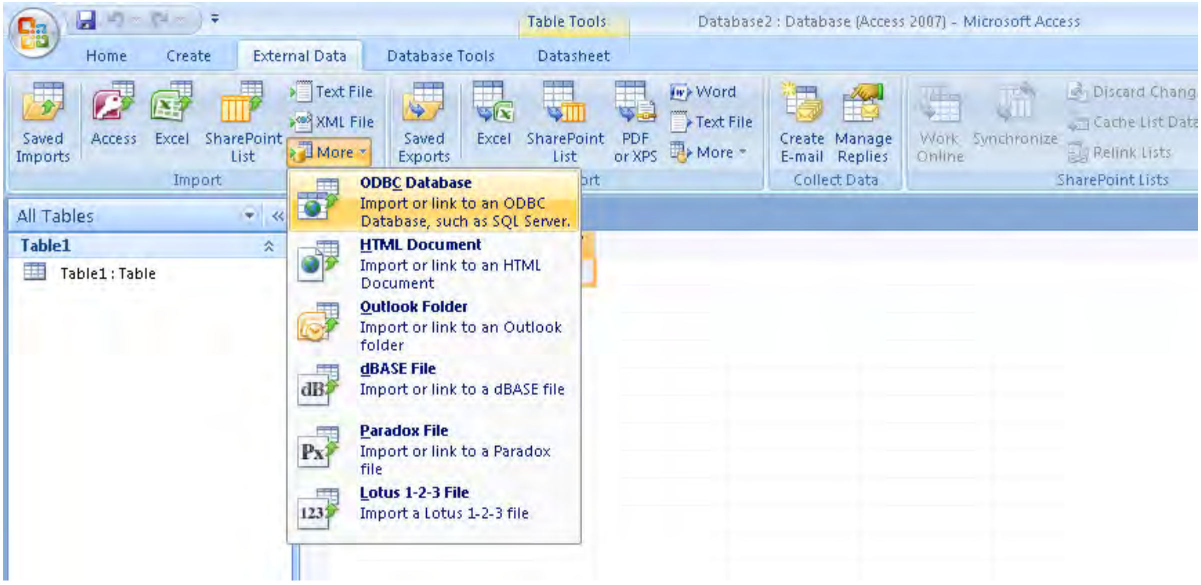
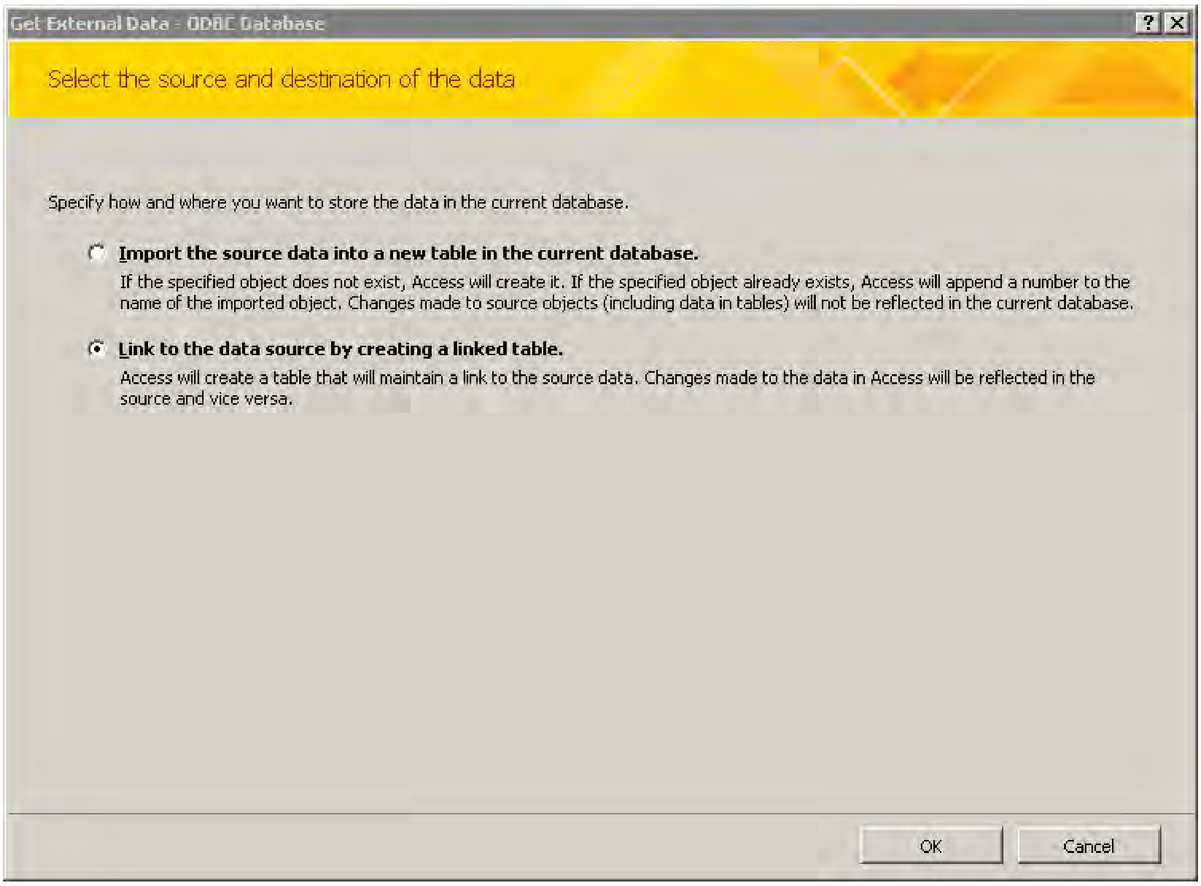


Table Tools
Database2 : Database (Access 2007) - Microsoft Access
Home
Create
External Data
Database Tools
Datasheet
Saved Imports
Access
Excel
SharePoint List
Text File
XML File
More
Import
Saved Exports
Excel
SharePoint List
PDF or XPS
Word
Text File
More
Create E-mail
Manage Replies
Collect Data
Work Online
Synchronize
Discard Chang
Cache List Data
Relink Lists
SharePoint Lists
All Tables
Table1
Table1 : Table
ODBC Database
Import or link to an ODBC Database, such as SQL Server.
HTML Document
Import or link to an HTML Document
Outlook Folder
Import or link to an Outlook folder
dBASE File
Import or link to a dBASE file
Paradox File
Import or link to a Paradox file
Lotus 1-2-3 File
Import a Lotus 1-2-3 file

- Preferred connection is the kind where data is not copied:



Get External Data - ODBC Database

Select the source and destination of the data

Specify how and where you want to store the data in the current database.

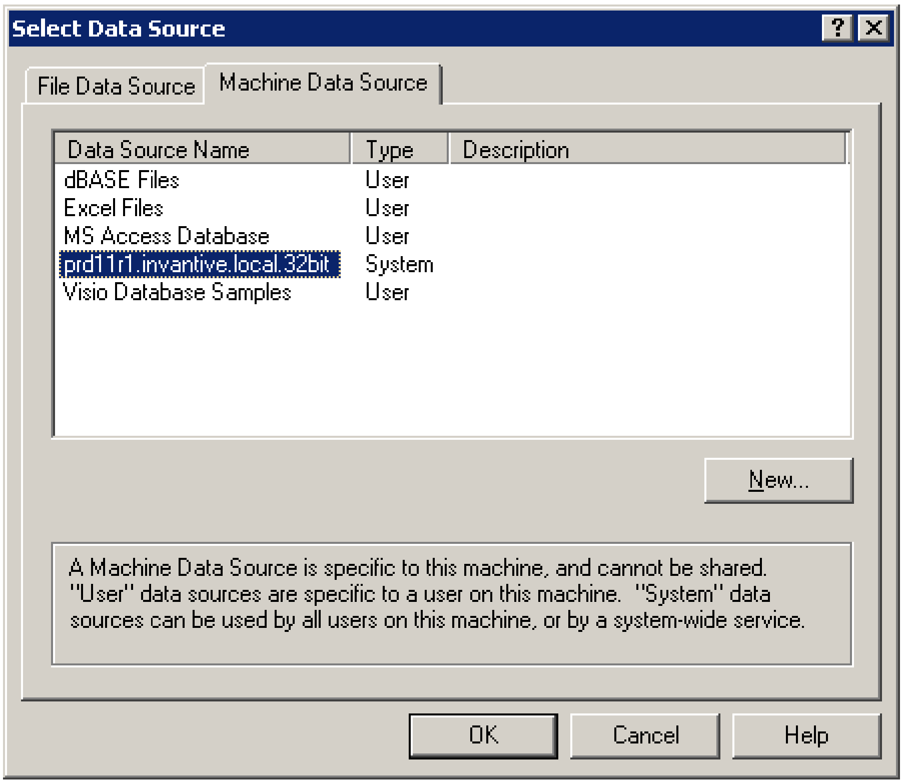
○ **Import the source data into a new table in the current database.**

If the specified object does not exist, Access will create it. If the specified object already exists, Access will append a number to the name of the imported object. Changes made to source objects (including data in tables) will not be reflected in the current database.

● **Link to the data source by creating a linked table.**

Access will create a table that will maintain a link to the source data. Changes made to the data in Access will be reflected in the source and vice versa.

- Select the ODBC DSN:

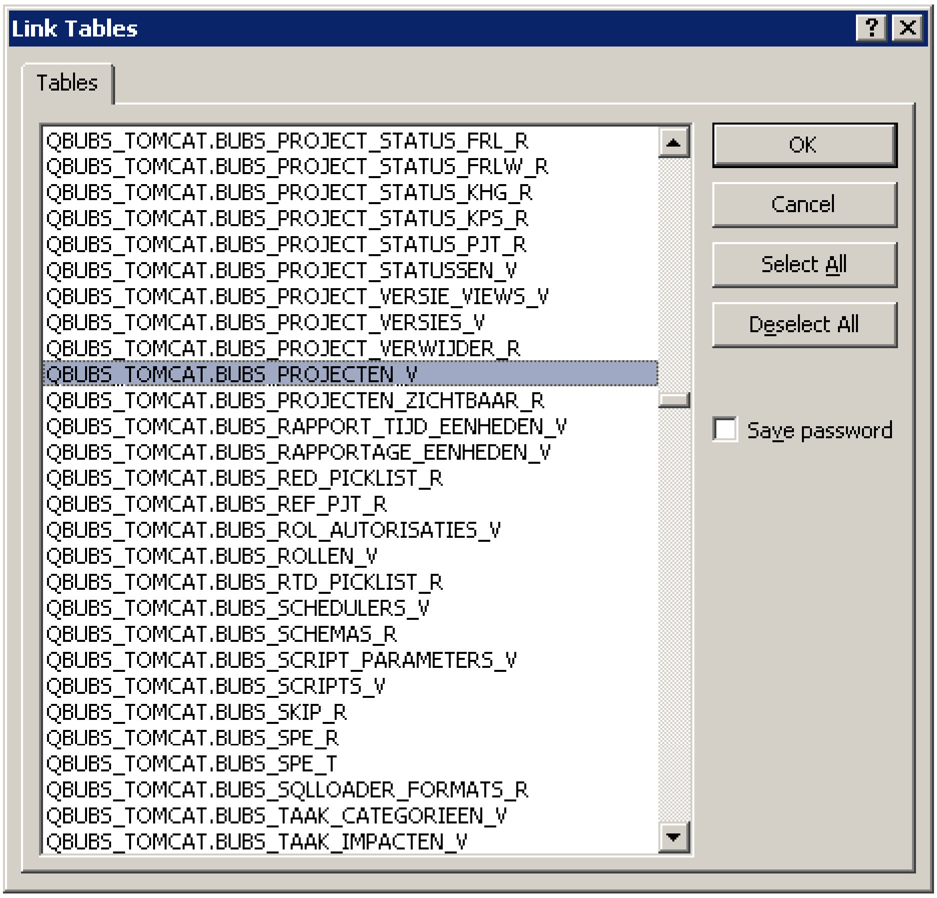


Select Data Source

Data Source Name	Type	Description
dBASE Files	User	
Excel Files	User	
MS Access Database	User	
prd11r1.invantive.local.32bit	System	
Visio Database Samples	User	

A Machine Data Source is specific to this machine, and cannot be shared. "User" data sources are specific to a user on this machine. "System" data sources can be used by all users on this machine, or by a system-wide service.

- Choose a business view:

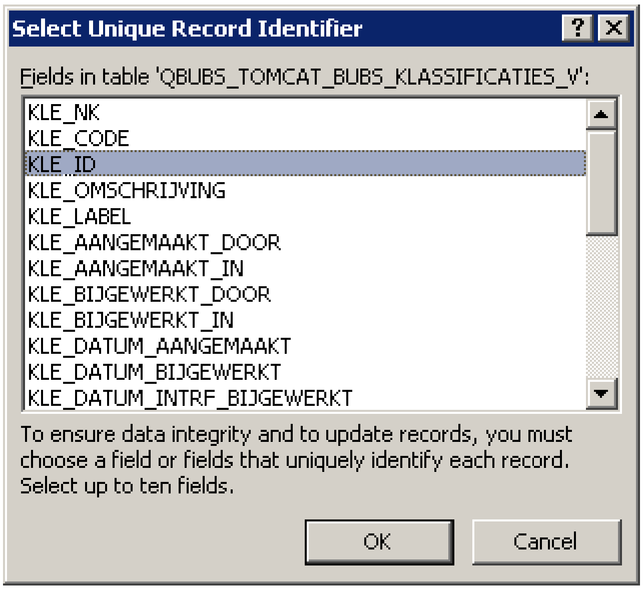


Link Tables

Tables

QBUBS_TOMCAT.BUBS_PROJECT_STATUS_FRL_R
QBUBS_TOMCAT.BUBS_PROJECT_STATUS_FRLW_R
QBUBS_TOMCAT.BUBS_PROJECT_STATUS_KHG_R
QBUBS_TOMCAT.BUBS_PROJECT_STATUS_KPS_R
QBUBS_TOMCAT.BUBS_PROJECT_STATUS_PJT_R
QBUBS_TOMCAT.BUBS_PROJECT_STATUSSEN_V
QBUBS_TOMCAT.BUBS_PROJECT_VERSIE_VIEWS_V
QBUBS_TOMCAT.BUBS_PROJECT_VERSIES_V
QBUBS_TOMCAT.BUBS_PROJECT_VERWIJDER_R
QBUBS_TOMCAT.BUBS_PROJECTEN_V
QBUBS_TOMCAT.BUBS_PROJECTEN_ZICHTBAAR_R
QBUBS_TOMCAT.BUBS_RAPPORT_TIJD_EENHEDEN_V
QBUBS_TOMCAT.BUBS_RAPPORTAGE_EENHEDEN_V
QBUBS_TOMCAT.BUBS_RED_PICKLIST_R
QBUBS_TOMCAT.BUBS_REF_PJT_R
QBUBS_TOMCAT.BUBS_ROL_AUTORISATIES_V
QBUBS_TOMCAT.BUBS_ROLLEN_V
QBUBS_TOMCAT.BUBS_RTD_PICKLIST_R
QBUBS_TOMCAT.BUBS_SCHEDULERS_V
QBUBS_TOMCAT.BUBS_SCHEMAS_R
QBUBS_TOMCAT.BUBS_SCRIPT_PARAMETERS_V
QBUBS_TOMCAT.BUBS_SCRIPTS_V
QBUBS_TOMCAT.BUBS_SKIP_R
QBUBS_TOMCAT.BUBS_SPE_R
QBUBS_TOMCAT.BUBS_SPE_T
QBUBS_TOMCAT.BUBS_SQLLOADER_FORMATS_R
QBUBS_TOMCAT.BUBS_TAAK_CATEGORIEEN_V
QBUBS_TOMCAT.BUBS_TAAK_IMPACTEN_V

- Choose the unique key (always ID):



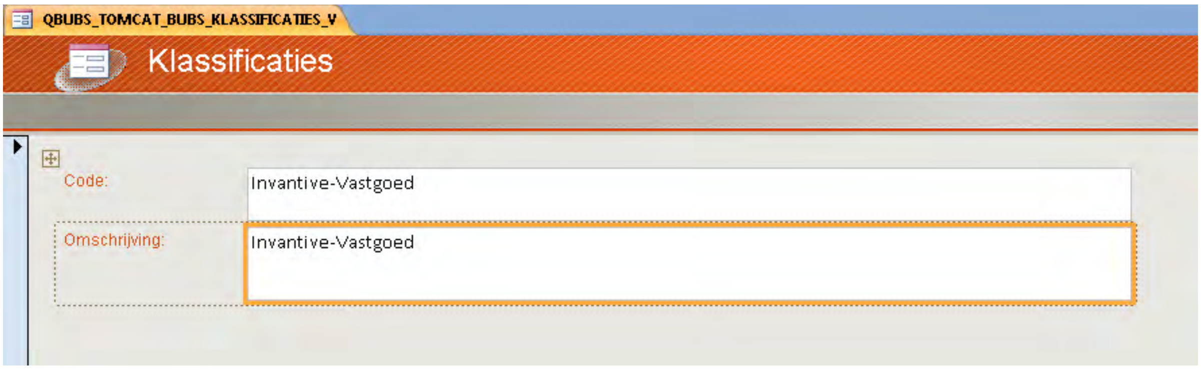
Select Unique Record Identifier

Fields in table 'QBUBS_TOMCAT_BUBS_KLASSIFICATIES_V':

KLE_NK
KLE_CODE
KLE_ID
KLE_OMSCHRIJVING
KLE_LABEL
KLE_AANGEMAAKT_DOOR
KLE_AANGEMAAKT_IN
KLE_BIJGEWERKT_DOOR
KLE_BIJGEWERKT_IN
KLE_DATUM_AANGEMAAKT
KLE_DATUM_BIJGEWERKT
KLE_DATUM_INTRF_BIJGEWERKT

To ensure data integrity and to update records, you must choose a field or fields that uniquely identify each record. Select up to ten fields.

- The final result will look, for example, like this:


QBUBS_TOMCAT_BUBS_KLASSIFICATIES_V
Klassificaties

Code: Invantive-Vastgoed

Omschrijving: Invantive-Vastgoed

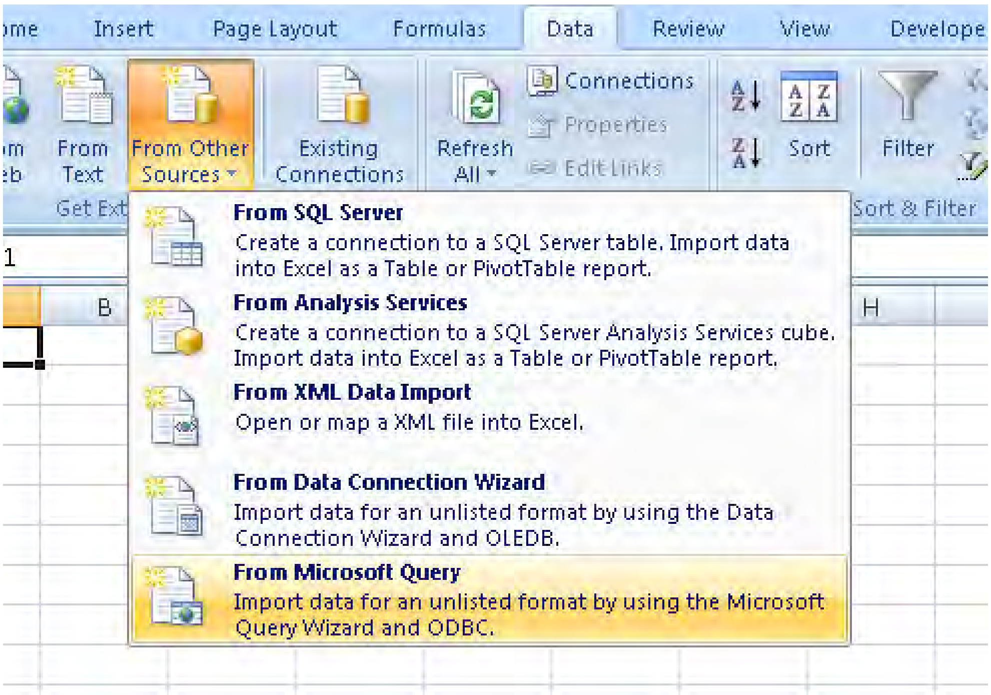
- Next the information can be requested and/or mutated in accordance with the established rights.

Example Connection with Microsoft Excel

After the ODBC connection is created, also a connection with Microsoft Excel and the associated Microsoft Query can be made.

This example will show the budgeted and actual costs for cost category 3200 for all projects:

- Start Microsoft Excel.
- Select the ribbon ‘Data’ and create a connection:


ome
Insert
Page Layout
Formulas
Data
Review
View
Develope
From Text
From Other Sources
Existing Connections
Refresh All
Connections
Properties
Edit Links
Sort
Filter
Get Ext
Sort & Filter
1
B
H

From SQL Server
Create a connection to a SQL Server table. Import data into Excel as a Table or PivotTable report.

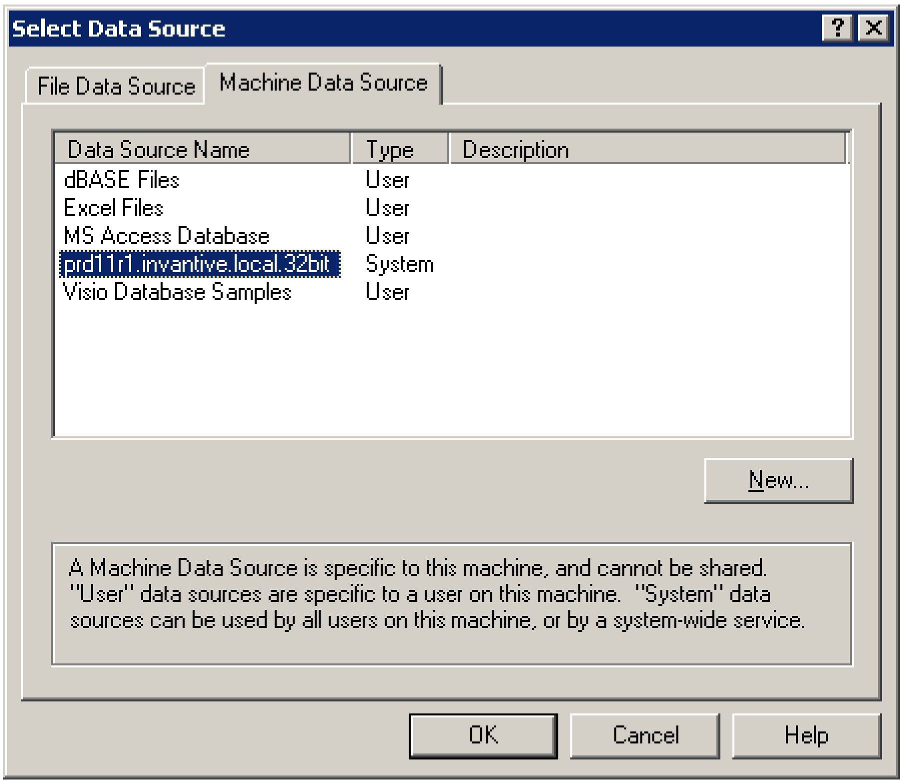
From Analysis Services
Create a connection to a SQL Server Analysis Services cube. Import data into Excel as a Table or PivotTable report.

From XML Data Import
Open or map a XML file into Excel.

From Data Connection Wizard
Import data for an unlisted format by using the Data Connection Wizard and OLEDB.

From Microsoft Query
Import data for an unlisted format by using the Microsoft Query Wizard and ODBC.

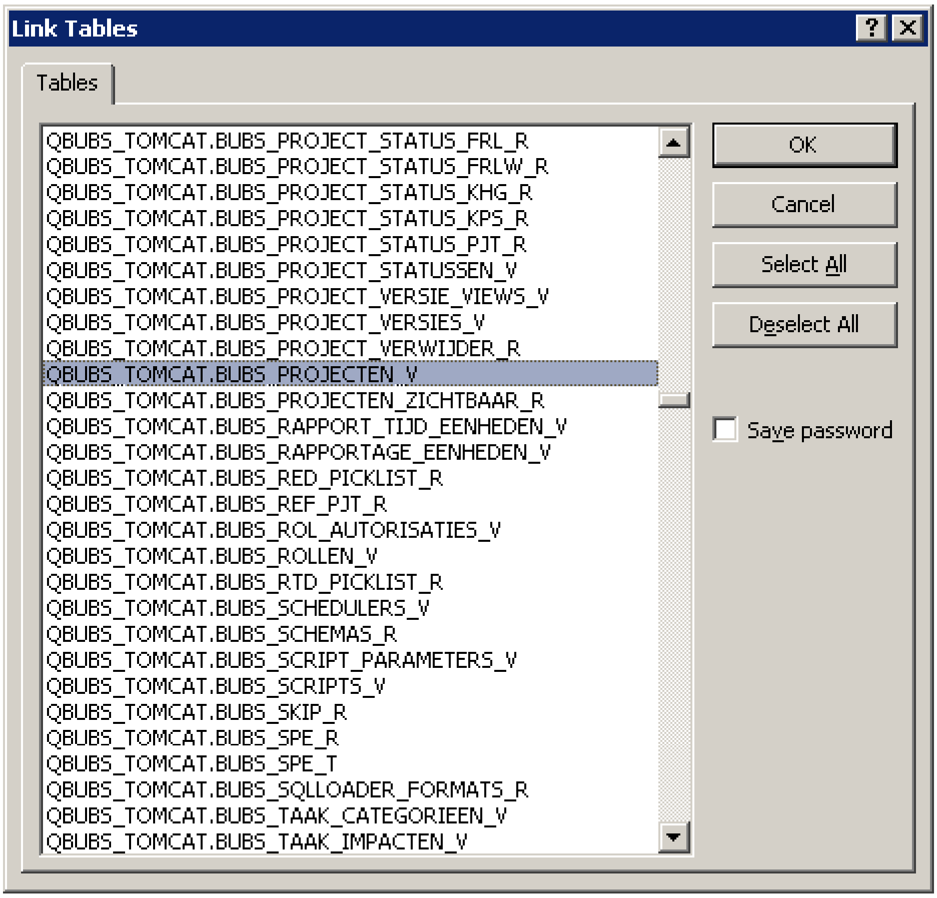
- Select ODBC DSN:



Data Source Name	Type	Description
dBASE Files	User	
Excel Files	User	
MS Access Database	User	
prd11r1.invantive.local.32bit	System	
Visio Database Samples	User	

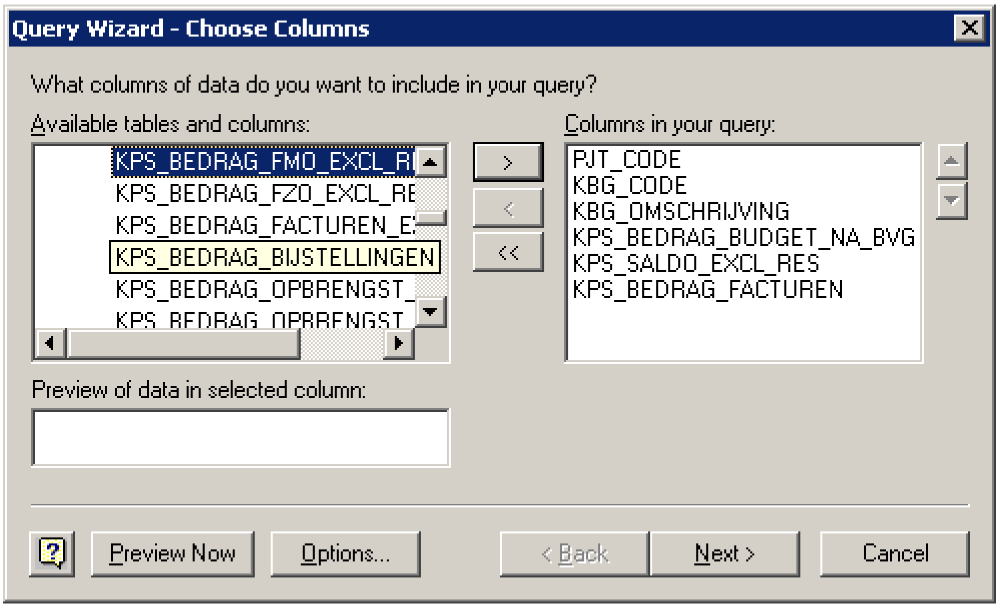
A Machine Data Source is specific to this machine, and cannot be shared. "User" data sources are specific to a user on this machine. "System" data sources can be used by all users on this machine, or by a system-wide service.

- Select a business view based on the technical reference manual:



QBUBS_TOMCAT.BUBS_PROJECT_STATUS_FRL_R
QBUBS_TOMCAT.BUBS_PROJECT_STATUS_FRLW_R
QBUBS_TOMCAT.BUBS_PROJECT_STATUS_KHG_R
QBUBS_TOMCAT.BUBS_PROJECT_STATUS_KPS_R
QBUBS_TOMCAT.BUBS_PROJECT_STATUS_PJT_R
QBUBS_TOMCAT.BUBS_PROJECT_STATUSSEN_V
QBUBS_TOMCAT.BUBS_PROJECT_VERSIE_VIEWS_V
QBUBS_TOMCAT.BUBS_PROJECT_VERSIES_V
QBUBS_TOMCAT.BUBS_PROJECT_VERWIJDER_R
QBUBS_TOMCAT.BUBS_PROJECTEN_V
QBUBS_TOMCAT.BUBS_PROJECTEN_ZICHTBAAR_R
QBUBS_TOMCAT.BUBS_RAPPORT_TIJD_EENHEDEN_V
QBUBS_TOMCAT.BUBS_RAPPORTAGE_EENHEDEN_V
QBUBS_TOMCAT.BUBS_RED_PICKLIST_R
QBUBS_TOMCAT.BUBS_REF_PJT_R
QBUBS_TOMCAT.BUBS_ROL_AUTORISATIES_V
QBUBS_TOMCAT.BUBS_ROLLEN_V
QBUBS_TOMCAT.BUBS_RTD_PICKLIST_R
QBUBS_TOMCAT.BUBS_SCHEDULERS_V
QBUBS_TOMCAT.BUBS_SCHEMAS_R
QBUBS_TOMCAT.BUBS_SCRIPT_PARAMETERS_V
QBUBS_TOMCAT.BUBS_SCRIPTS_V
QBUBS_TOMCAT.BUBS_SKIP_R
QBUBS_TOMCAT.BUBS_SPE_R
QBUBS_TOMCAT.BUBS_SPE_T
QBUBS_TOMCAT.BUBS_SQLLOADER_FORMATS_R
QBUBS_TOMCAT.BUBS_TAAK_CATEGORIEEN_V
QBUBS_TOMCAT.BUBS_TAAK_IMPACTEN_V

- Select the preferred columns (budget, forecast, project, cost category):



Query Wizard - Choose Columns

What columns of data do you want to include in your query?

Available tables and columns:

KPS_BEDRAG_FMO_EXCL_R
KPS_BEDRAG_FZO_EXCL_RE
KPS_BEDRAG_FACTUREN_E
KPS_BEDRAG_BIJSTELLINGEN
KPS_BEDRAG_OPBRENGST_
KPS_BEDRAG_OPBRENGST_

Columns in your query:

PJT_CODE
KBG_CODE
KBG_OMSCHRIJVING
KPS_BEDRAG_BUDGET_NA_BVG
KPS_SALDO_EXCL_RES
KPS_BEDRAG_FACTUREN

Preview of data in selected column:

- Note: If the same tables are displayed at the same time, make sure that only ‘Views’ is selected using the button ‘Options’:

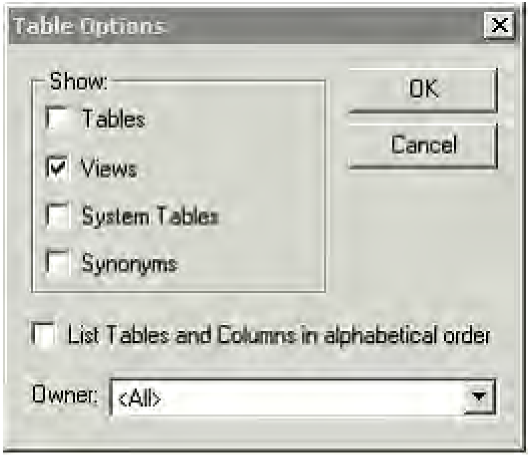


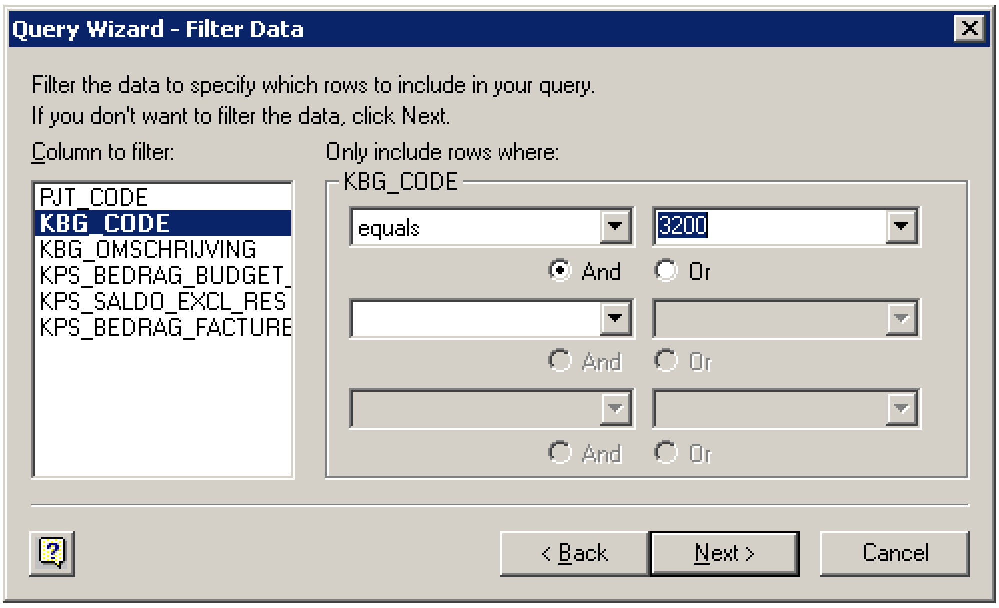
Table Options

Show:
☐ Tables
☑ Views
☐ System Tables
☐ Synonyms

☐ List Tables and Columns in alphabetical order

Owner: <All>

- Select the preferred filter on cost category ‘3200’:



Query Wizard - Filter Data

Filter the data to specify which rows to include in your query.
If you don't want to filter the data, click Next.

Column to filter:

PJT_CODE
KBG_CODE
KBG_OMSCHRIJVING
KPS_BEDRAG_BUDGET_
KPS_SALDO_EXCL_RES
KPS_BEDRAG_FACTURE

Only include rows where:

KBG_CODE

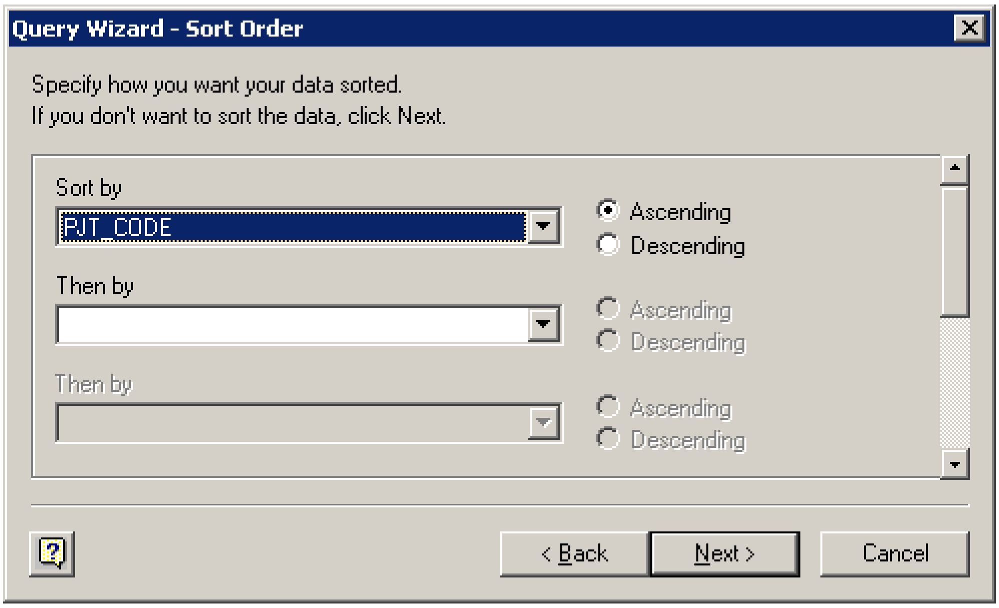
equals 3200

● And ○ Or

○ And ○ Or

○ And ○ Or

- Choose the desired collation on project code:



Query Wizard - Sort Order

Specify how you want your data sorted.
If you don't want to sort the data, click Next.

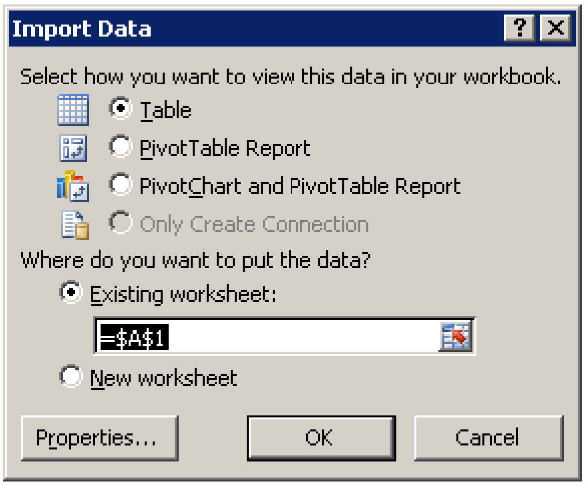
Sort by: PJT_CODE ● Ascending ○ Descending

Then by: ○ Ascending ○ Descending

Then by: ○ Ascending ○ Descending

< Back
Next >
Cancel

- Select the location in Microsoft Excel where the data should be placed:



Import Data

Select how you want to view this data in your workbook.

● Table
○ PivotTable Report
○ PivotChart and PivotTable Report
○ Only Create Connection

Where do you want to put the data?

● Existing worksheet: =A1

○ New worksheet

Properties...
OK
Cancel

- The data becomes visible in Excel:

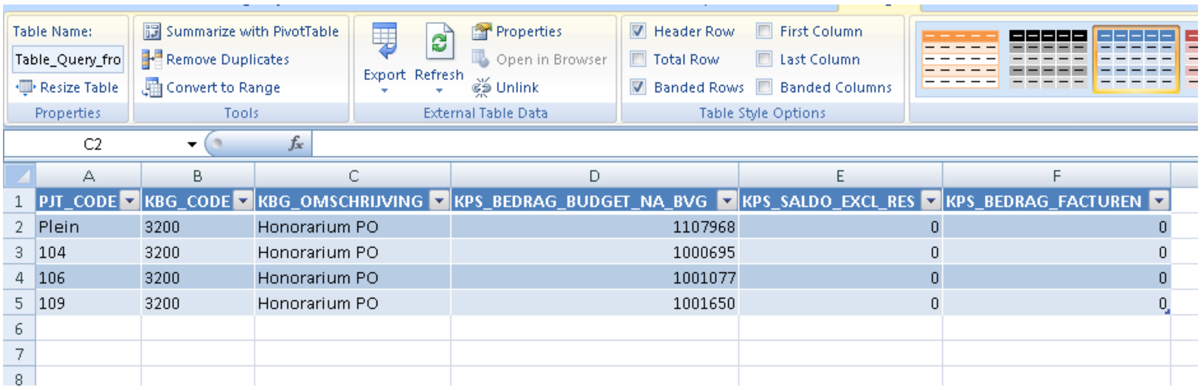
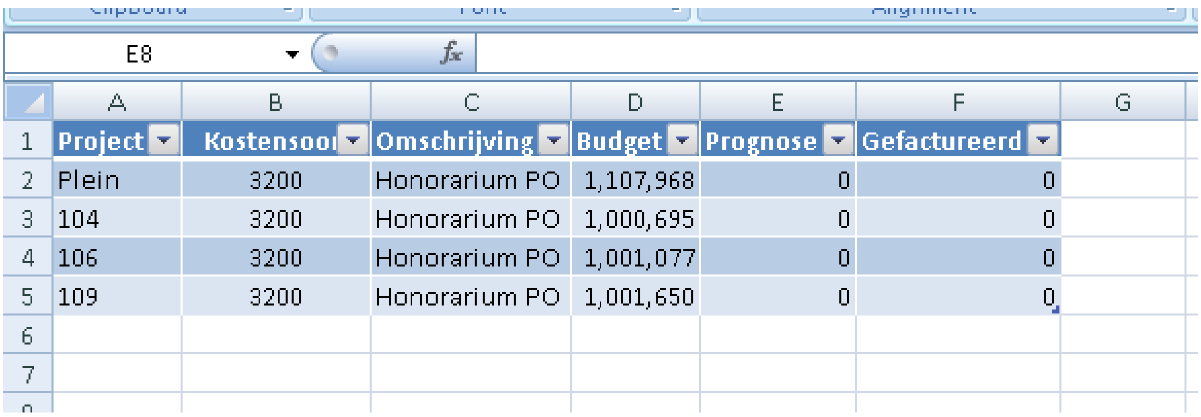


Table Name:
Table_Query_fro
Resize Table
Properties
Summarize with PivotTable
Remove Duplicates
Convert to Range
Tools
Export
Refresh
Properties
Open in Browser
Unlink
External Table Data
☑ Header Row
☐ Total Row
☑ Banded Rows
☐ First Column
☐ Last Column
☐ Banded Columns
Table Style Options
C2

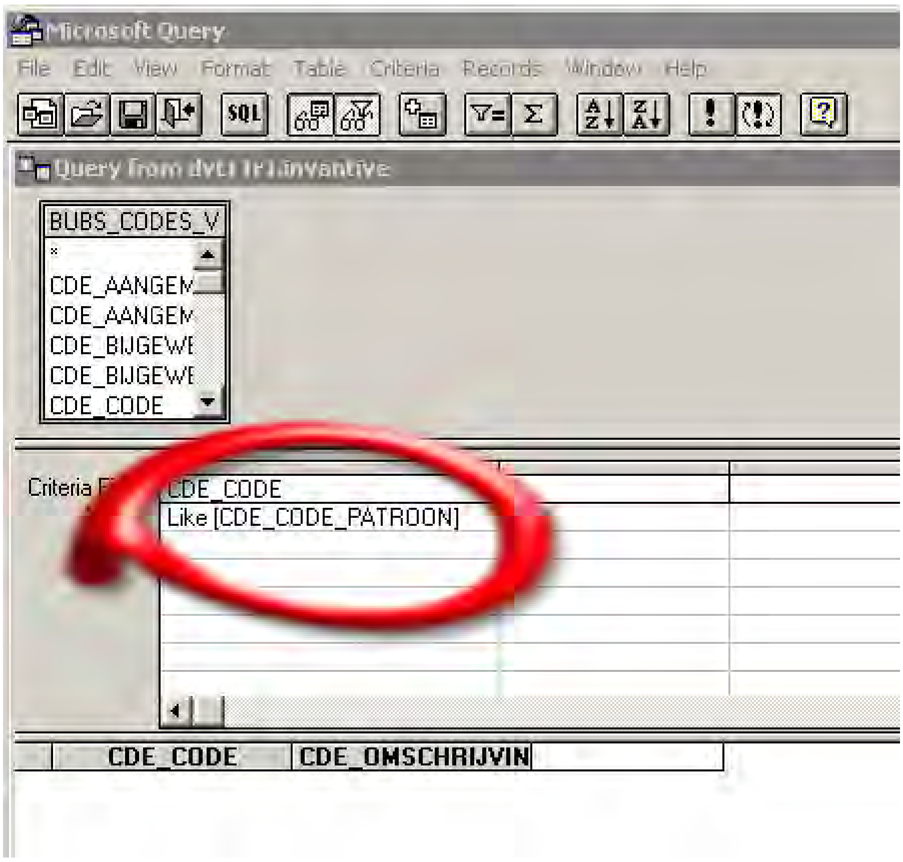
	A	B	C	D	E	F
1	PJT_CODE	KBG_CODE	KBG_OMSCHRIJVING	KPS_BEDRAG_BUDGET_NA_BVG	KPS_SALDO_EXCL_RES	KPS_BEDRAG_FACTUREN
2	Plein	3200	Honorarium PO	1107968	0	0
3	104	3200	Honorarium PO	1000695	0	0
4	106	3200	Honorarium PO	1001077	0	0
5	109	3200	Honorarium PO	1001650	0	0
6						
7						
8						

- Modify the layout of the data to get the final result:



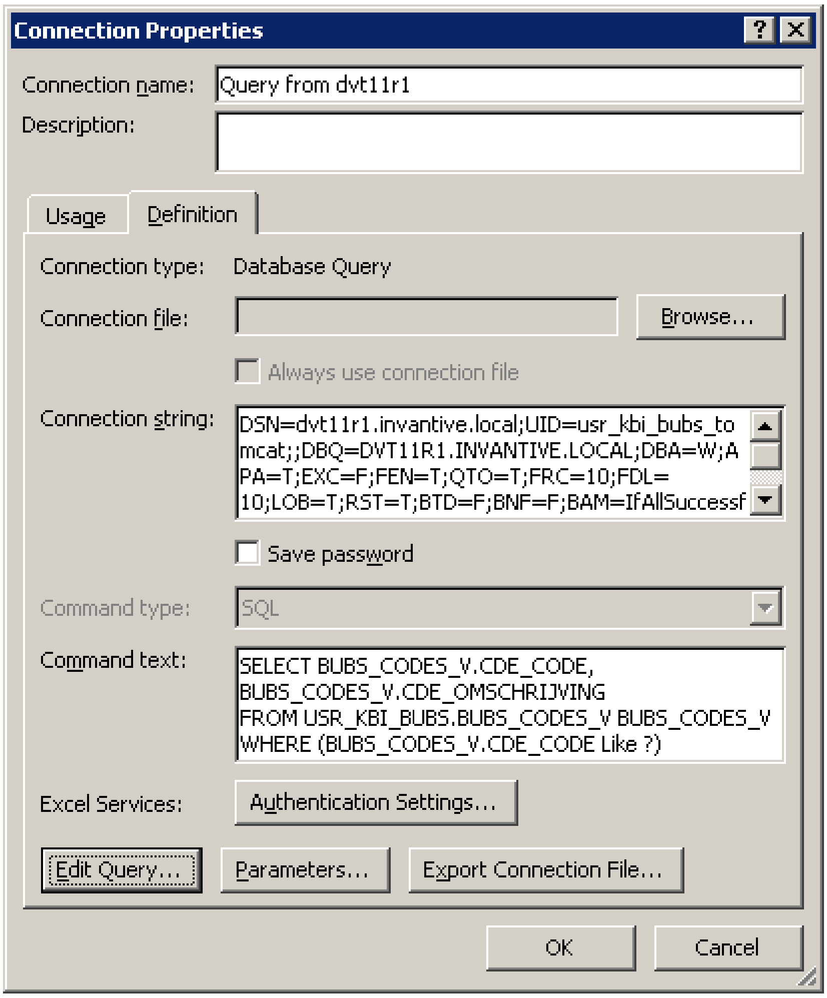
	A	B	C	D	E	F	G
1	Project	Kostensoor	Omschrijving	Budget	Prognose	Gefactureerd	
2	Plein	3200	Honorarium PO	1,107,968	0	0	
3	104	3200	Honorarium PO	1,000,695	0	0	
4	106	3200	Honorarium PO	1,001,077	0	0	
5	109	3200	Honorarium PO	1,001,650	0	0	
6							
7							

- If needed, the data can be managed using parameters. Select 'Properties' in the tab 'Data'.
- Select the property button to the right of the question mark.
- Select ‘Edit Query’.
- Expand the query with parameters in the format ‘[DESCRIPTION]’, for example:


Microsoft Query
File
Edit
View
Format
Table
Criteria
Records
Window
Help
SQL
Query from dvt1 Tr1.invantive
BUBS_CODES_V
*
CDE_AANGEM
CDE_AANGEM
CDE_BIJGEWE
CDE_BIJGEWE
CDE_CODE
Criteria F
CDE_CODE
CDE_OMSCHRIJVIN

Like [CDE_CODE_PATROON]

- Via the menu option ‘View’ and then ‘Parameters’ you open the screen:


Connection Properties
? ✕
Usage
Definition
Browse...
Authentication Settings...
Edit Query...
Parameters...
Export Connection File...
OK
Cancel

Connection name: Query from dvt11r1

Description:

Connection type: Database Query

Connection file:

☐ Always use connection file

Connection string: DSN=dvt11r1.invantive.local;UID=usr_kbi_bubs_tomcat;;DBQ=DVT11R1.INVANTIVE.LOCAL;DBA=W;APA=T;EXC=F;FEN=T;QTO=T;FRC=10;FDL=10;LOB=T;RST=T;BTD=F;BNF=F;BAM=IfAllSuccessf

☐ Save password

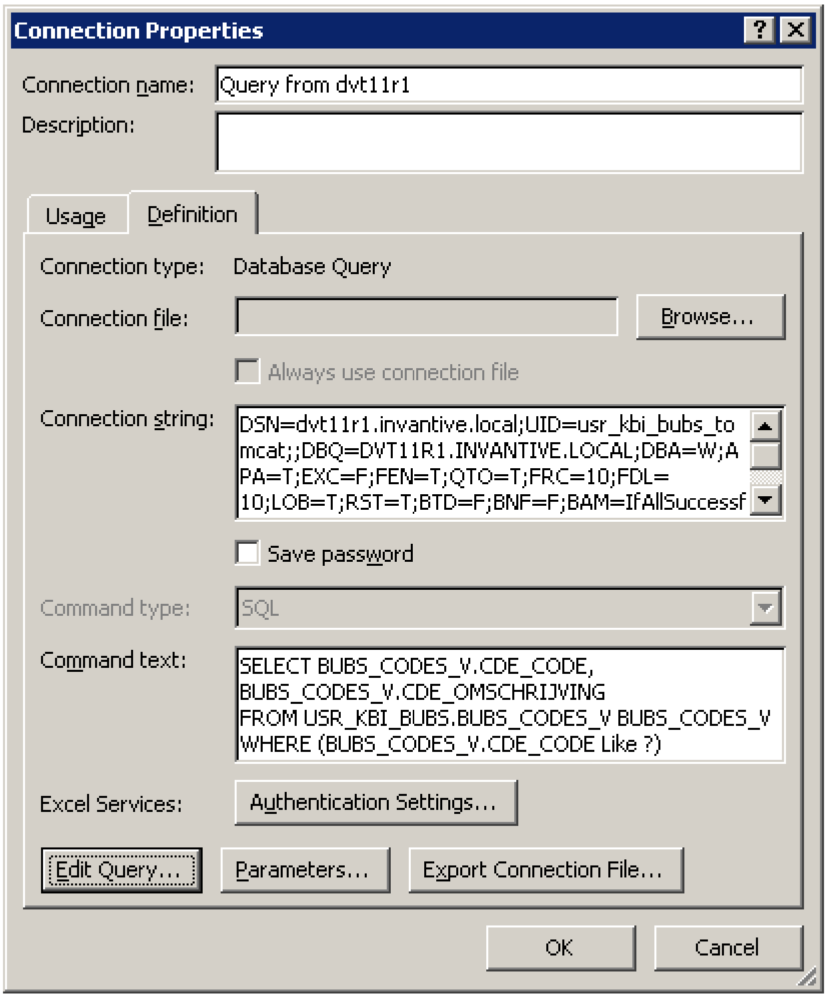
Command type: SQL

Command text:

```
SELECT BUBS_CODES_V.CDE_CODE,
BUBS_CODES_V.CDE_OMSCHRIJVING
FROM USR_KBI_BUBS.BUBS_CODES_V BUBS_CODES_V
WHERE (BUBS_CODES_V.CDE_CODE Like ?)
```

Excel Services:

- Once a parameter is published via Microsoft Query, the button ‘Parameters’ will be available in the query properties:


Connection Properties
Usage
Definition
Browse...
Authentication Settings...
Edit Query...
Parameters...
Export Connection File...
OK
Cancel

Connection name: Query from dvt11r1

Description:

Connection type: Database Query

Connection file:

☐ Always use connection file

Connection string:

```
DSN=dvt11r1.invantive.local;UID=usr_kbi_bubs_to
mcat;;DBQ=DVT11R1.INVANTIVE.LOCAL;DBA=W;A
PA=T;EXC=F;FEN=T;QTO=T;FRC=10;FDL=
10;LOB=T;RST=T;BTD=F;BNF=F;BAM=IfAllSuccessf
```

☐ Save password

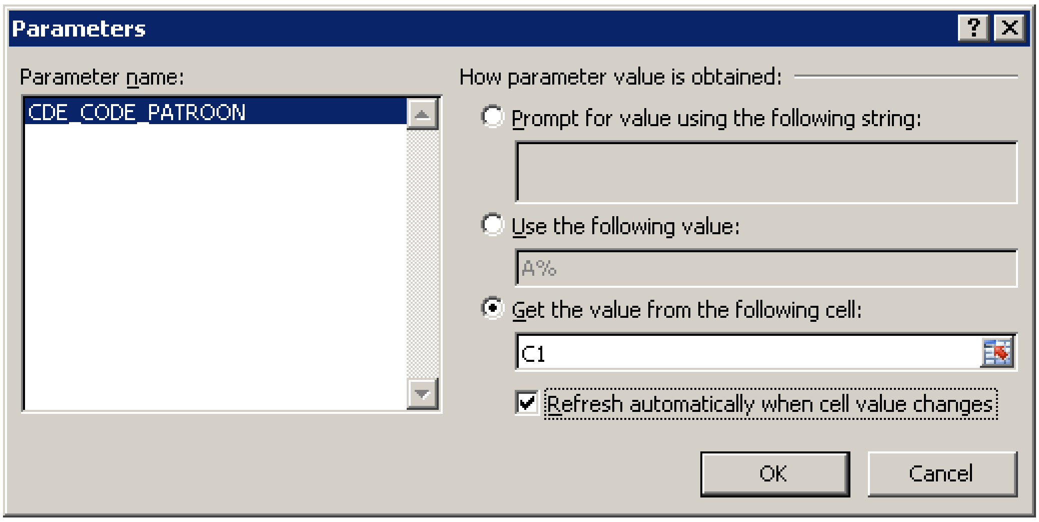
Command type: SQL

Command text:

```
SELECT BUBS_CODES_V.CDE_CODE,
BUBS_CODES_V.CDE_OMSCHRIJVING
FROM USR_KBI_BUBS.BUBS_CODES_V BUBS_CODES_V
WHERE (BUBS_CODES_V.CDE_CODE Like ?)
```

Excel Services:

- You can use this button to specify that the question should be based on the contents of a cell:


Parameters
OK
Cancel

Parameter name: CDE_CODE_PATROON

How parameter value is obtained:

○ Prompt for value using the following string:

○ Use the following value: A%

● Get the value from the following cell: C1

☑ Refresh automatically when cell value changes

Example Start Up Your Own Background Job

It´s possible to request the running of a background process to Invantive Vision from your own program. Use a PL/SQL code like:

```
begin
  --
  -- Start a job with parameters.
  --
  -- Log on to Invantive.
  --
  bubs_session.set_session_info
  ( 'my_program_name'
  , 'start etl process'
  , 'system'
  , 'no query'
  , coalesce(sys_context('userenv', 'ip_address'), '?')
  , sys_context('userenv', 'host')
  , 'my_url'
  , '$Header: http://svn.invantive.com/repos/p104/trunk/help/nl/
manual/Topics/voorbeeld-eigen-achtergrondproces.xml 19891 2012-
10-09 13:23:03Z gle3 $' || to_char(sysdate, 'YYYYMMDDHH24MISS')
  );
  --
  -- Submit background job.
  --
  bubs#background_jobs.submit('BUBS_RUN_ETL', sysdate);
  --
  -- Fill parameters (optional).
  --
  bubs#background_jobs.set_parameter('p_etl_file', '../etl/
example.kjb');
  bubs#background_jobs.set_parameter('p_log_level', 'BASIC');
  bubs#background_jobs.finish_parameter_entry;
  --
  -- Save to allow job to be picked up by schedulers.
  --
  commit;
  --
  -- Wait till job ends (optional).
  --
  -- Starting release b41, you can substitute this code by:
  --
  -- bubs#background_jobs.wait_for_finish_job
  --
  declare
    l_dummy pls_integer;
  begin
    while true
    loop
      select 1
      into   l_dummy
      from   bubs_background_jobs_v bjb
      where  1=1
      and    bjb.bjb_seq          = bubs#background_jobs.get_bj-
b_seq_last_submitted
      and    bjb.bjb_datum_einde is null
      ;
    end loop;
  exception
    when no_data_found
    then
```

```
      null; -- Job ended.
    end;
  end;
```

You can also use one job to start other jobs. In that case you only need to use the code from ‘Submit background job’. Waiting for the completion of all initiated jobs can be done with:

```
  bubs#background_jobs.wait_for_finish_all_child_jobs;
```

1.5.10.3 Invantive Server Pages

Within Additional Business rules 256 and Your Own User Interface 461 you can make use of Invantive Server Pages. Invantive Server Pages, also known as ‘ISP’, are comparable with Active Server Pages (‘ASP’) and Java Server Pages (‘JSP’).

Using user profile options for example, you can build reports in HTML or XML format which can be used for instance in e-mails. It is better to use ISP than the customized reports in the web user interface in the following situations:

- There is a continuous layout and not a layout for each page.
- The output needs to be HTML or XML.
- Possible changes are needed while compiling the report.
- The layout is more complex than what was possible with iReport.

ISP pages supply PL/SQL programming in the end, just like additional business rules. ISP pages are a better choice compared to additional business rules such as:

- The end product contains many layout elements.
- The person who builds the layout has little knowledge of additional business rules and PL/SQL.

The system recognizes ISP scripts by the next text directly at the beginning of a text:

<%@ page language="ISP" %>

Subsequently, layout elements and code elements can be interchanged. The code segments must be placed between ‘<%’ and ‘%>’ and must be written in Oracle PL / SQL.

The layout elements are identically reproduced in the output of the ISP script and the code segments are executed. All output to dbms_output is included in the output of the ISP script.

The following ISP script writes a welcome message to the Oracle user:

```
  <%@ page language="ISP" %>
  <html>
  <body>
  Welkom <% dbms_output.put_line(user); %>
  </body>
  </html>
```

All code sections may fill variables. It is recommended to define them in the beginning. Code sections located later in the script, can then read the variables. The following script provides for instance the day which is used later:

```
  <%@ page language="ISP" %>
  <% declare
    l_dag varchar2(100);
  begin
  %>
```

```
<html>
<body>
<% l_dag := to_char(sysdate, 'DDD'); %>
Welkom <% dbms_output.put_line(user); %>,
het is vandaag <% dbms_output.put_line(l_dag); %>.
</body>
</html>
```

For the execution of a ISP script you can use itgen_isp.run. You can pass variables in the format of a URL parameter text as second parameter, for example ‘GBR_ID=1&TAK_ID=2’. In the ISP code this can be used to read the contents of the l_parameters_map(NAME). You can only retrieve the values of get parameters of a form.

The content type can be changed by assigning a value to the variable l_content_response_-type.

If the ISP is started using an ISP that is stored in the database as a code, then you can find that code in the variable l_spe_code.

If a user has rights on the screen ‘Display Invantive Server Pages’, then he can basically open all pages. Per Invantive Server Page this can be further refined by setting the variable l_access_granted_flag to 'Y' or 'N', for example by creating a function for the Invantive Server Page in the following manner:

```
  l_access_granted_flag := itgen_utilities.bool2char(bubs#mijn_-
menu_functies_r.has_access('xxive_db_sessions'));
```

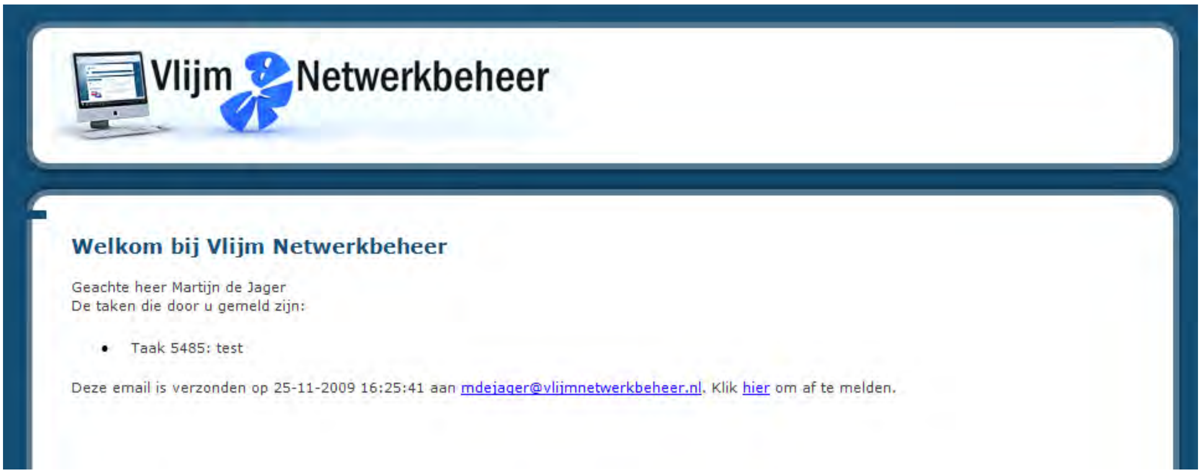
Newsletter Example

In this example using ISP a newsletter will be composed in the next steps:

- Create a profile option containing the layout of the newsletter.
- Create a profile option containing the ISP.
- Send newsletter, select the users and create the emails used for the newsletter.

Note that you can merge both profile options to one profile option.

The final result is a newsletter in the following format:



Welkom bij Vlijm Netwerkbeheer

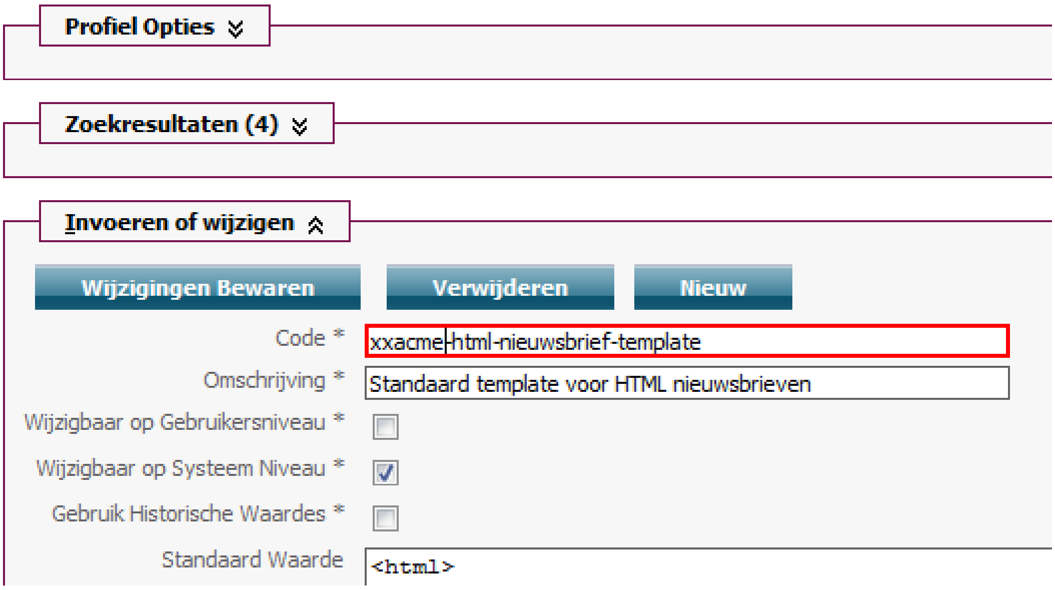
Geachte heer Martijn de Jager
De taken die door u gemeld zijn:

- Taak 5485: test

Deze email is verzonden op 25-11-2009 16:25:41 aan mdejager@vlijmnetwerkbeheer.nl. Klik hier om af te melden.

Profile Option Layout Newsletter

This local profile option contains the layout of the newsletter. The texts ‘: Payload’ and ‘: FOOTER’ are replaced by the message:


Profiel Opties
Zoekresultaten (4)
Invoeren of wijzigen
Wijzigingen Bewaren
Verwijderen
Nieuw

Code * xxacme-html-nieuwsbrief-template

Omschrijving * Standaard template voor HTML nieuwsbrieven

Wijzigbaar op Gebruikersniveau * ☐

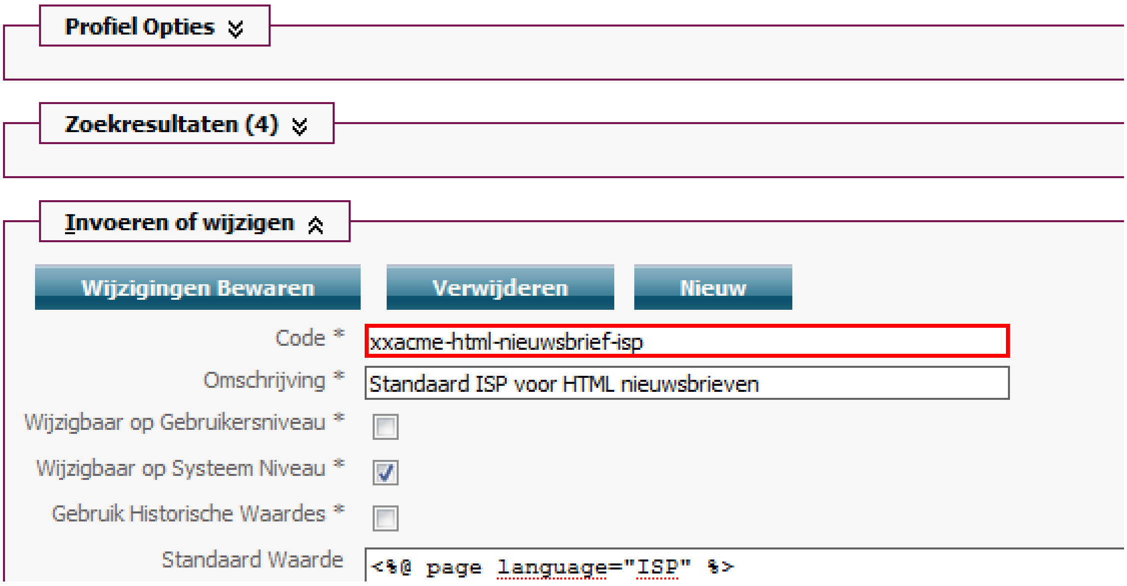
Wijzigbaar op Systeem Niveau * ☑

Gebruik Historische Waardes * ☐

Standaard Waarde <html>

Profile Option ISP

This local profile option contains the ISP to compose the message:


Profiel Opties
Zoekresultaten (4)
Invoeren of wijzigen
Wijzigingen Bewaren
Verwijderen
Nieuw

Code * xxacme-html-nieuwsbrief-isp

Omschrijving * Standaard ISP voor HTML nieuwsbrieven

Wijzigbaar op Gebruikersniveau * ☐

Wijzigbaar op Systeem Niveau * ☑

Gebruik Historische Waardes * ☐

Standaard Waarde <%@ page language="ISP" %>

The code is:

```
<%@ page language="ISP" %>
<%
declare
  l_gbr_aanhef      varchar2(500);
  l_template        clob;
  l_payload         clob;
  l_tak_found       boolean;
begin
  l_template := bubs#profiel_opties.get_value('xxinet-html-
nieuwsbrief-template');
  l_payload  := '';
  --
  -- Determine greeting.
  --
  select 'Geachte '
         || case
            when gbr.gbr_geslacht_ind = 'M'
            then 'heer '
            when gbr.gbr_geslacht_ind = ‘V’
            then 'mevrouw '
            else ''
            end
         || gbr_naam
  into   l_gbr_aanhef
  from   bubs_gebruikers_v gbr
  where  gbr.gbr_id = l_parameters_map('GBR_ID')
  ;
  l_payload  := l_payload || l_gbr_aanhef || ‘,’;
  l_payload  := l_payload || '<br/>';
  l_payload  := l_payload || 'De processen die door u gemeld
zijn:';
  l_payload  := l_payload || '<ul>';
  l_tak_found := false;
  --
  for r_tak in
  ( select tak.code tak_code
    ,      tak.omschrijving tak_omschrijving
    from   bubs_processen tak
    where  tak.gbr_id_melder = l_parameters_map('GBR_ID')
    order
    by     tak.id desc
  )
  loop
    l_payload := l_payload || '<li>Proces ' || r_tak.tak_code ||
': ' || r_tak.tak_omschrijving || '</li>';
  end loop;
  --
  if not l_tak_found
  then
    l_payload := l_payload || '<li>Geen meldingen.</li>';
  end if;
  --
  l_payload  := l_payload || '</ul>';
  --
  -- Merge both.
  --
  l_template := replace(l_template, ':PAYLOAD', l_payload);
  l_template := replace
                ( l_template
                , ':FOOTER'
                , 'Deze e-mail is verzonden op '
                  || to_char(sysdate, 'DD-MM-YYYY HH24:MI:SS')
                  || ' aan '
                  || l_parameters_map('GBR_EMAIL_ADRES')
                  || '. Klik <a href="http://site/afmelden?
GBR_ID='
                  || to_char(l_parameters_map('GBR_ID'))
                  || '">hier</a> om af te melden.'
                );
  itgen_isp.print_clob(l_template);
end;
%>
<!-- Aangemaakt met Invantive Estate -->
```

Send Newsletter

After this one time activities it is easy to send the newsletter with for example:

```
begin
  --
  -- Log on to Invantive Estate
  --
  bubs_session.set_session_info
  ( 'toad.sql'
  , 'install'
  , 'system'
  , 'Newsletter'
  , coalesce(sys_context('userenv', 'ip_address'), '?')
  , sys_context('userenv', 'host')
  , 'n/a'
  , 'TOAD ' || to_char(sysdate, 'YYYYMMDDHH24MISS')
  );
end;
/
insert into bubs_berichten_v
( brt_afgehandeld_vlag
, brt_afzender
, brt_afzender_naam
, brt_boodschap_l
, brt_mime_type
, brt_onderwerp
, brt_ontvanger
, brt_ontvanger_naam
, brt_ref_tabel
, brt_ref_sleutel
, brt_vertalen_vlag
)
select 'N'
,      'info@acme.com'
,      'ACME'
,      itgen_isp.run
       ( bubs#profiel_opties.get_value('xxacme-html-nieuwsbrief-
isp')
       , 'GBR_ID=' || itgen_url.escape_ca-
ched(to_char(gbr.gbr_id), 'Y')
         || '&' || 'GBR_NAAM=' || itgen_url.escape_ca-
ched(gbr.gbr_naam, 'Y')
         || '&' || 'GBR_EMAIL_ADRES=' || itgen_url.escape_ca-
ched(gbr.gbr_email_adres, 'Y')
       )
,     'text/html'
,     'ACME nieuwsbrief november 2009'
,     gbr.gbr_emil_adres
,     gbr.gbr_naam
,      'GBR'
,      gbr.gbr_id
,      'Y'
from  bubs_gebruikers_v gbr
where 1=1
and   gbr.gbr_email_adres is not null
/
commit
/
```

1.6 Processes

This chapter describes the functioning of processes that take place via multiple screens, processes and manual operations.

1.6.1 Invoicing

See the Visio flowchart bubs processes (CAPTERE IN HERE).

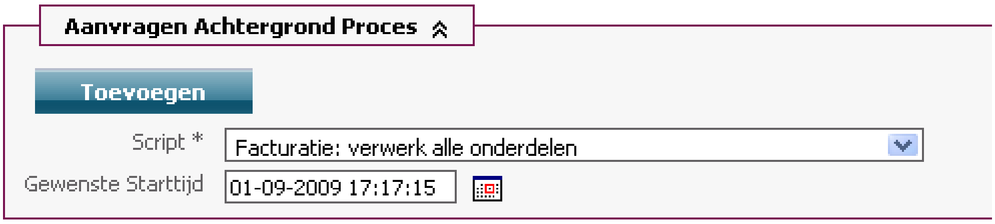
Step I5 / I6 / I7: Invoicing

It is possible in one effort to:

- approve all hours;
- completed processes to be invoiced;
- all hours to be invoiced of invoiceable processes;
- invoice all hours of projects;
- all concept invoices to be approved.

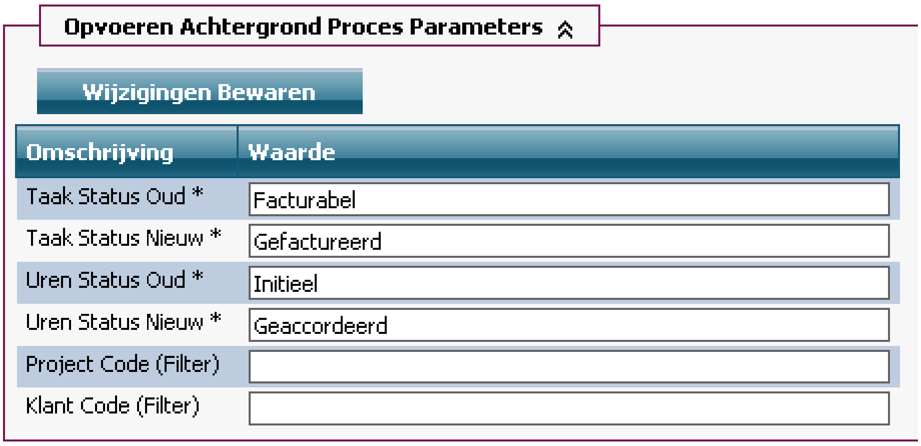
To do so please follow the next steps:

- Select the background script 'Invoicing: process all parts':


Aanvragen Achtergrond Proces
Toevoegen

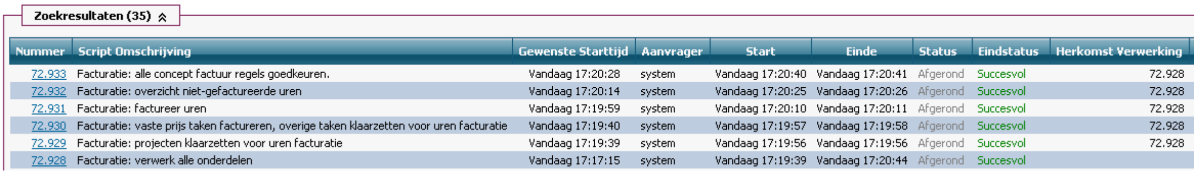
Script * Facturatie: verwerk alle onderdelen
Gewenste Starttijd 01-09-2009 17:17:15

- Enter the parameters as follows:


Opvoeren Achtergrond Proces Parameters
Wijzigingen Bewaren

Omschrijving	Waarde
Taak Status Oud *	Facturabel
Taak Status Nieuw *	Gefactureerd
Uren Status Oud *	Initieel
Uren Status Nieuw *	Geaccordeerd
Project Code (Filter)	
Klant Code (Filter)	

- Process the background process.
- End result is:



Zoekresultaten (35)

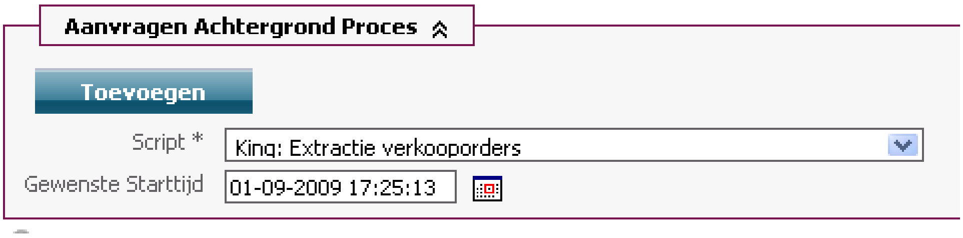
Nummer	Script Omschrijving	Gewenste Starttijd	Aanvrager	Start	Einde	Status	Eindstatus	Herkomst Verwerking
72.933	Facturatie: alle concept factuur regels goedkeuren.	Vandaag 17:20:28	system	Vandaag 17:20:40	Vandaag 17:20:41	Afgerond	Succesvol	72.928
72.932	Facturatie: overzicht niet-gefactureerde uren	Vandaag 17:20:14	system	Vandaag 17:20:25	Vandaag 17:20:26	Afgerond	Succesvol	72.928
72.931	Facturatie: factureer uren	Vandaag 17:19:59	system	Vandaag 17:20:10	Vandaag 17:20:11	Afgerond	Succesvol	72.928
72.930	Facturatie: vaste prijs taken factureren, overige taken klaarzetten voor uren facturatie	Vandaag 17:19:40	system	Vandaag 17:19:57	Vandaag 17:19:58	Afgerond	Succesvol	72.928
72.929	Facturatie: projecten klaarzetten voor uren facturatie	Vandaag 17:19:39	system	Vandaag 17:19:56	Vandaag 17:19:56	Afgerond	Succesvol	72.928
72.928	Facturatie: verwerk alle onderdelen	Vandaag 17:17:15	system	Vandaag 17:19:39	Vandaag 17:20:44	Afgerond	Succesvol	

- In the screen Draft Invoice Lines [132] you can view the results.

Step I8: Export

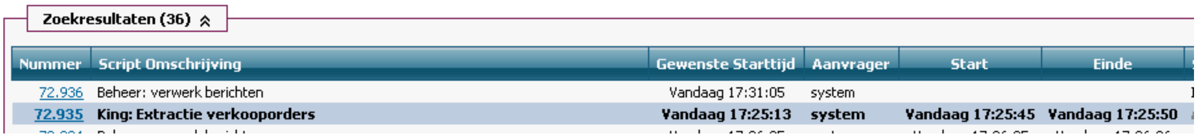
Subsequently the approved concept invoice lines can then be exported into an interface file for the ERP package used, such as for example, KING. To do so, follow these steps:

- Run the background program 'King: Extraction sales orders'.



Script *: King: Extractie verkooporders
Gewenste Starttijd: 01-09-2009 17:25:13

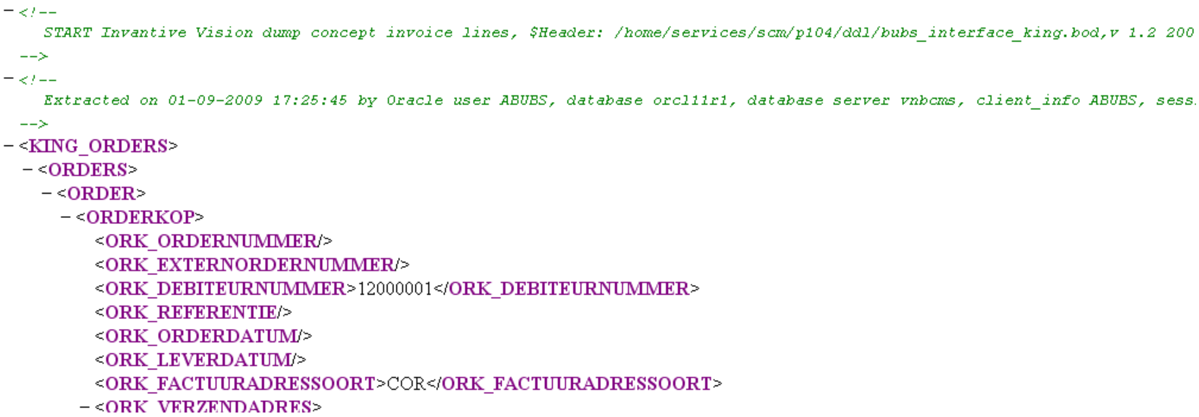
- After the process has been executed (see picture), you can retrieve the output.



Zoekresultaten (36)

Nummer	Script Omschrijving	Gewenste Starttijd	Aanvrager	Start	Einde
72.936	Beheer: verwerk berichten	Vandaag 17:31:05	system		
72.935	**King: Extractie verkooporders**	**Vandaag 17:25:13**	**system**	**Vandaag 17:25:45**	**Vandaag 17:25:50**

- The output is in XML format which can be imported into KING:



```
- <!--
    START Invantive Vision dump concept invoice lines, $Header: /home/services/scm/p104/ddl/bubs_interface_king.bod,v 1.2 200
  -->
- <!--
    Extracted on 01-09-2009 17:25:45 by Oracle user ABUBS, database orcl11r1, database server vnbcms, client_info ABUBS, sess.
  -->
- <KING_ORDERS>
  - <ORDERS>
    - <ORDER>
      - <ORDERKOP>
          <ORK_ORDERNUMMER/>
          <ORK_EXTERNORDERNUMMER/>
          <ORK_DEBITEURNUMMER>12000001</ORK_DEBITEURNUMMER>
          <ORK_REFERENTIE/>
          <ORK_ORDERDATUM/>
          <ORK_LEVERDATUM/>
          <ORK_FACTUURADRESSOORT>COR</ORK_FACTUURADRESSOORT>
        - <ORK_VERZENDADRES>
```

1.6.2 New Employee

Follow these steps to enter a new employee, so he or she can log inInvantive Estate:

- Create a person in the screen Persons [97]. Before you create a user, there must always be a person;
- Create a user from the person in Users [155]. Enter a username and password;
- Select the roles of the person in Person Roles [156]. Here you can indicate whether the person is a time writer, process owner or process reporter and the unit, working schedule and

internal tariff.

- Give the user the role for authorization User Roles 158. Indicate here which role the users have in terms of authorization Invantive Estate.

Follow the next steps if the new contributor will also write hours that are going to be billed:

- If you use a separate unit for each employee, enter the new unit in Units 151.
- Enter the sales price for the new unit in Price List Lines 180.
- Enter in the screen Persons roles 156 the desired unit.

1.7 Server

1.7.1 Background Scripts for Administration

The following background scripts are available for administration.

1.7.1.1 Compile Invalid Database Objects

This function is specifically for system administrators.

Compiles all database objects of which the validity is not certain, and because of which they are marked as invalid. After executing this script, it might be necessary to restart the application, since the foundation might have been changed. Also see Database Objects 270.

1.7.1.2 Check Contract Positions Cache

This function is specifically for system administrators.

The prognosis from the prognosis model are recalculated with each change of relevant input data. This background script checks if the advanced calculated and established prognosis are identical to the current results from the prognosis model.

1.7.1.3 Run ETL Process

This function is specifically for system administrators.

With 'Administration: Run ETL Process' you can execute programs for the moving of data in the background. This can be used for:

- Retrieving actual figures from the general ledger system and reading them again in the ERP interface.
- Geocoding of locations with the help of Google Geocode API.
- Offering of instructions to an application such as Basware for payments are refactored.

The programs can be developed with the Kettle of Pentaho Data Integration.

An ETL program gets the following parameters:

- BUBS_DB_SERVER: name of the server in the JDBC connection with the name 'bubs_tomcat'.
- BUBS_DB_PORT: port in the JDBC connection with the name 'bubs_tomcat'.
- BUBS_DB_NAME: name of the database in the JDBC connection with the name 'bubs_tomcat'.
- BUBS_DB_USER: name of the database user in the JDBC connection with the name 'bubs_tomcat'.
- BUBS_DB_PASSWORD: password of the database user in the JDBC connection with the name 'bubs_tomcat'.

- BUBS_JOB_GBR_AANMELD_CODE: login code of the application user that requested the background process.
- BUBS_JOB_BJB_SEQ: number of the background process.
- BUBS_JOB_SCT_CODE: code of the background script that is running.
- BUBS_JOB_SDR_CODE: code of the background planner that executes the background process.
- Plus all parameters that the background script has.

Login

Per Kettle program (transformation of job) you can create connections. If you want to connect with the application, give this connection the name 'bubs' with the following specification:

```
    <connection>
      <name>bubs</name>
      <server>${BUBS_DB_SERVER}</server>
      <type>ORACLE</type>
      <access>Native</access>
      <database>${BUBS_DB_NAME}</database>
      <port>${BUBS_DB_PORT}</port>
      <username>${BUBS_DB_USER}</username>
      <password>${BUBS_DB_PASSWORD}</password>
      <servername/>
      <data_tablespace/>
      <index_tablespace/>
      <attributes>
        <attribute><code>FORCE_IDENTIFIERS_TO_LOWERCASE</code><attribute>N</attribute></attribute>
        <attribute><code>FORCE_IDENTIFIERS_TO_UPPERCASE</code><attribute>N</attribute></attribute>
        <attribute><code>IS_CLUSTERED</code><attribute>N</attribute></attribute>
        <attribute><code>PORT_NUMBER</code><attribute>1521</attribute></attribute>
        <attribute><code>QUOTE_ALL_FIELDS</code><attribute>N</attribute></attribute>
        <attribute><code>SUPPORTS_BOOLEAN_DATA_TYPE</code><attribute>N</attribute></attribute>
        <attribute><code>USE_POOLING</code><attribute>N</attribute></attribute>
        <attribute><code>SQL_CONNECT</code><attribute>/* Log on to middle tier. */
  insert into bubs_pre_laden_r
  (action_requested, action_parameter1, action_parameter2, action_parameter3, action_parameter4, action_parameter5, action_parameter6, action_parameter7, action_parameter8, action_parameter9)
  values
  ( &apos;LOGON FULL&apos;
, &apos;$Header: http://svn.invantive.com/repos/p104/trunk/help/
nl/manual/Topics/draai-etl-proces.xml 19891 2012-10-09 13:23:03Z
gle3 $&apos;
, &apos;ETL&apos;
, &apos;${BUBS_JOB_GBR_AANMELD_CODE}&apos;
, &apos;Job ${BUBS_JOB_BJB_SEQ}&apos;
, null
, null
, null
, &apos;$Header: http://svn.invantive.com/repos/p104/trunk/help/
nl/manual/Topics/draai-etl-proces.xml 19891 2012-10-09 13:23:03Z
gle3 $&apos; || to_char(sysdate, &apos;YYYYMMDDHH24MISS&apos;)
, null
)
</attribute></attribute>
    </attributes>
  </connection>
```

1.7.1.4 Dump Projects like XML

This function is specifically for system administrators.

With this background script you can register projects with all data in the file outside the documents as XML. This XML file can be used to feed other systems or for long term archiving.

1.7.1.5 Generate XML File for Web Services

This function is specifically for developers and system administrators.

The Invantive Producer repository is converted to an XML file that can be used to generate the web services.

1.7.1.6 Optimize Storage of Text Index

This function is specifically for system administrators.

Optimizes the storage of the text index for documents in order to occupy less storage space and to speed up document search. Execution does not have to occur frequently, normally a couple of times per year will do. See also Documents 102.

1.7.1.7 Parse heavy SQL Statements in advance of the actual Call

This function is specifically for system administrators.

It is recommended to schedule the execution of these scripts every morning before 08:00 hours. This will speed startup when the first user logs on because a lot of data already has been loaded from the hard disks into the memory.

The SQL statements that are being prepared, have to be collected regularly with the help of the script.Collect SQL Statements which Are relatively heavy to Parse 493

1.7.1.8 Send messages for Exceedance Deadline Processes

This function is specifically for system administrators.

Sends a message by e-mail to the process owner for all processes that are still open and with deadlines in the past.

1.7.1.9 Send E-mail to Administrator and Supplier with Errors

This function is specifically for system administrators.

Via this background job you can send errors and warnings from the messages of <% PRODUCT%> and from database-wide alerts to Invantive. Invantive regularly analyzes those messages to improve the quality of the software on those parts that are most important for users.

1.7.1.10 Synchronize Additional Business Rules if Necessary

This function is specifically for system administrators.

Normally, this function is automatically executed if an additional business rule 256 changes. This function updates all the generated software for additional business rules based on the specifications of all views from which is indicated that they need to be synchronized.

1.7.1.11 Synchronize Additional Business Rules for 1 Specific View

This function is specifically for system administrators.

Normally, this function is automatically executed if an additional business rule 256 changes. The function updates the generated software for additional business rules based on the specifications for exactly óne specific view, independent of whether the additional business rule was changed or not. This can sometimes be necessary if the generated software is manually adjusted outside the control of Invantive Estate.

1.7.1.12 Synchronize Text Index of Documents with actual Content

This function is specifically for system administrators.

Update the text index for documents 102 with newly added documents. Without this background process it is no possible to find documents using the index. The script is automatically started for each new document that is added.

1.7.1.13 Validate Soll Numbers with Data

This function is specifically for system administrators.

ompare the actual present data with the supplied Soll values 230. The outcomes are stored as tests 229. Also see Value Formulas 231.

1.7.1.14 Process Messages

This function is specifically for system administrators.

Try to delivere all messages using the SMTP Server in the screen Settings 336 which have not been delivered and for which you can try to delivere the message again.

Everyone tries to delivere the maximum number of e-mails as noted in the profile option 'bubs-brt-maximum-number-emails-each-time'.

If the profile option 'bubs-sct-send-mail-smtp-authenticate' is on Y, authentication will be accomplished with help from the user as noted in 'bubs-sct-send-mail-smtp-user' and the password in the profile option 'bubs-sct-send-mail-smtp-password'.

Mail which couldn't be delivered, will be automatically delivered later. The delay is set in the screen Settings 336. The delay is multiplied by 2 till the power of the number of tries executed to delivere the message. The maximum delay is 4 hours.

1.7.1.15 Delete all Data from the ERP Interface Tables

This function is specifically for system administrators.

All data from the ERP interface tables will be removed.

1.7.1.16 Delete all old Background Jobs

This function is specifically for system administrators.

Delete all background process 220 which ended longer ago then the number of specified days.

1.7.1.17 Remove old Tables from Recycle Bin

This function is specifically for system administrators.

Permanently removes tables which have earlier been put in the recycle bin. The functioning is comparable with the database statement 'purge recyclebin'.

1.7.1.18 Collect SQL Statements which Are relatively heavy to Parse.

This function is specifically for system administrators.

With help from the script Parse heavy SQL statements before the actual call 491 you can improve the performance of the system with the first user. This script gathers necessary SQL statements.

1.7.1.19 Update Calender

This function is specifically for system administrators.

A calendar is included In the application which among other is used to convert dates into week numbers. From the moment of installation the calendar is filled for 10 years into the past and 30 years into the future. In case the application is going to be used for a longer time, it might be necessary to update the calendar for the future. Usually it is sufficient to perform this script once a year.

1.7.1.20 Update Statistics

This function is specifically for system administrators.

For optimal performance the application uses statistics of the stored data. These statistics are not updated automatically. After every major change in the stored date (for example, a conversion) the statistics need to be updated by this script. Moreover, it is recommendable to update the statistics every month.

1.7.2 Background Script for Development

The following background scripts are available for application development.

1.7.2.1 Update Business Layer

This function is specifically for system developers.

The business layer is constructed again, based on the data stored in Invantive Producer. After executing this script, it might be necessary to restart the application, since the foundation might have been changed. See also Invantive Producer 272.

1.7.3 Background Scripts for Testing

The following background scripts are available to test the correct functioning of the application.

1.7.3.1 Runs 10 Seconds

This function is specifically for system developers.

The processing of this script takes 10 seconds and it is made for testing the functioning of the background schedulers. 222

1.7.3.2 Java (with Error)

This function is specifically for system developers.

The processing of this script results in an error message and it is made for testing the functioning of the background schedulers 222.

1.7.3.3 Java (without Error)

This function is specifically for system developers.

The processing of this script doesnot result in an error message and it serves for testing the functioning of the background schedulers 222.

1.7.3.4 Multiple dependent Processes

This function is specifically for system developers.

Processing the script results in a series of processes which are interdependent. The script is made to test the functioning of the background schedulers. 222.

1.7.3.5 Oracle PL/SQL (with Error)

This function is specifically for system developers.

The processing of this script results in an error message and it is made for testing the functioning of the background schedulers 222.

1.7.3.6 Oracle PL/SQL (without Error)

This function is specifically for system developers.

The processing of this script doesnot result in an error message and it serves for testing the functioning of the background schedulers 222.

1.7.4 Background Scripts Invoicing

The following background scripts are available for invoicing.

1.7.4.1 Approve All Concept Invoice Lines

This script is part of the invoicing process.

The script approves all Concept invoice lines 132 not yet approved.

1.7.4.2 Remove All Forwarded Concept Invoice Lines

Remove all Concept invoice lines 132 that at least the specified number of days ago have been transmitted to the accounting package.

1.7.4.3 Book all hours as cost

Most small accounting packages can not easily book costs. This script books costs directly in <% PRODUCT%> as invoices 135.

Condition is that Invantive Estate also is checked by the auditor and both costs and revenues fall in the same accounting entity.

The size of costs posting is based on number of hours 143 times the internal rate of the person/machine times the weight of the labor type 177.

The effect can also be configured as follows:

- The code of the cost invoice is based on the contents of the profile option 'bubs-cfl-costaccounting-ftr-code-kosten-patroon'.

- The description of the cost invoice is based on the contents of the profile option 'bubs-cfl-costaccounting-ftr-omschrijving-patroon'.
- The description of the cost invoice line is based on the contents of the profile option 'bubs-cfl-costaccounting-frl-omschrijving-patroon'.
- The contract for the costs and revenues is based on the pattern of the contract of the labor type.
- The code of the revenue invoice is based on the contents of the profile option 'bubs-cfl-costaccounting-ftr-code-opbrengsten-patroon'.
- The description of the revenue invoice is based on the contents of the profile option 'bubs-cfl-costaccounting-pjt-code-opbrengsten'.
- The description of the revenue invoice line is based on the contents of the profile option 'bubs-cfl-costaccounting-kbg-code-opbrengsten'.

1.7.4.4 Invoice Hours

Invoice the hours that are ready for invoicing as described in Timesheet Statuses 186.

1.7.4.5 Overview non-invoiced hours

This overview shows the non-invoiced hours, regardless of the filter set.

First the hours are shown that have not been booked yet in the past and that are put ready for invoicing. Then follows a list of the hours that are ready for invoicing.

1.7.4.6 Prepare Projects for Invoicing of Hours

Hours that are directly booked on projects get the specified timesheet status. This should preferably be a timesheet status that is billable.

1.7.4.7 Fixed-Price-Billing Processes, other Processes for Preparing Billing Hours

Executes the following activities:

- Invoice fixed price processes like draft invoice lines.
- Ready the hours of all other processes for timesheet invoicing.
- Process used process units to draft invoice lines.

The invoicing of hours happens with Invoice Hours 495.

1.7.4.8 Process all Parts

This script executes the standard invoicing, by the following steps:

- Invoicing: Prepare projects for invoicing o hours.
- Invoicng: Fixed-Price-Billing Processes, prepare other processes for hours invoicing.
- Invoicing: invoice hours.
- Invoicing: Overview non-invoiced hours.
- Invoicing: Approve all concept Invoice Lines.

If your organization hs another invoicing process, you need to make your own background script. This can be placed in the screen Background Scripts 314.

1.7.5 Background Scripts Cash Flows

The following background scripts are available for cash flows.

1.7.5.1 Calculate massively Cash Flows

This script creates a cash flow projection for all projects within the specified criteria. The massively creation of such cash flows is often used to determine a multiyear forecast based on prognosed sales.

1.7.6 Background script Exact Online

The following background scripts are available for Exact Online.

1.7.6.1 Extraction Sales Invoices

Make a file with sales invoicing which can be uploaded using Exact Online. See also Concep Invoices 434.

The format of the sales invoices can be send through a number of profile options:

- bubs-interface-exactonline-factuur-product-proces-unit: the product for the usage of process units.
- bubs-interface-exactonline-factuur-product-uren: the product for the hours.
- bubs-interface-exactonline-factuur-product-vaste-prijs: the product for the fixed-price-processes.
- bubs-interface-exactonline-invoice-journal-sales: the journal for the sales.
- bubs-interface-exactonline-invoice-unit: the unit.
- bubs-interface-exactonline-invoice-format-labor: the description of the invoice line for hours, possibly using the fields :tak_code, :tak_omschrijving, :tak_referentie_klant, :tak_referentie_leverancier, :unt_omschrijving, :cfl_datum_start_l, :cfl_datum_einde_l, :gbr_naam, :gbr_initials, :wst_code, :hour_comment, :hour_location, :pjt_code, :pjt_code_erp, :pjt_code_short, kbg_code, :cfl_follownumber, :cfl_description, :cfl_date_start_s, :cfl_datum_end_s and :hour_comment_after.
- bubs-interface-exactonline-invoice-format-labor-note: the note on the invoice line for hours, possible usage of the fields :tak_code:tak_description, :tak_referentie_klant, :tak_referentie_leverancier, :unt_description, :cfl_datum_start_l, :cfl_date_end_l, :gbr_name, :gbr_initials, :wst_code, :hour_location, :hour_comment, :pjt_code, :pjt_code_erp, :pjt_code_short, kbg_code, :cfl_follownumber, :cfl_description, :cfl_date_start_s, :cfl_date_eind_s en :hour_comment_after.<
- bubs-interface-exactonline-invoice-cost center-process: the cost center for processes.
- bubs-interface-exactonline-invoice-cost center-process-unit: the cost center for process units.
- bubs-interface-exactonline-invoice-line-format-product: the description of the invoice line for process units, possibly using the fields :tak_code, :tak_omschrijving, :tak_reference_customer, :tak_reference_supplier and :unt_desciption, :pjt_code, :pjt_code_erp, :pjt_code_short, kbg_code, :cfl_follownumber, :cfl_description, :cfl_date_start_s en :cfl_datum_end_s.
- Bubs-interface-exactonline-factuur-regel-formaat-product-notitie: the notition on the invoice line or process units, possibly using the fields :tak_code, :tak_description, :tak_reference_customer, :tak_reference_supplier, :unt_description, :hour_location, :wst_code, :hour_comment, :pjt_code, :pjt_code_erp, :pjt_code_short, kbg_code, :cfl_follownumber, :cfl_description, :gbr_initials, :gbr_name, :cfl_date_start_s, :cfl_date_end_s en :hour_comment_after.
- Bubs-interface-exactonline-factuur-regel-formaat-vaste-prijs: the description of the invoice line of fixed price processes, possibly using the fields :tak_code, :tak_omschrijving, :tak_referentie_klant, :tak_referentie_leverancier, :unt_omschrijving, :wst_code, :uur_commentaar, :uur_locatie, :pjt_code, :pjt_code_erp, :pjt_code_kort, kbg_co-

de, :cfl_volgnummer, :cfl_omschrijving, :gbr_initialen, :gbr_naam, :cfl_datum_start_s, :cfl_datum_einde_s en :uur_commentaar_na.

- Bubs-interface-exactonline-factuur-regel-formaat-vaste-prijs-notitie: the note on the invoice line of fixed price processes, possibly using the fields :tak_code, :tak_omschrijving, :tak_referentie_klant, :tak_referentie_leverancier, :unt_omschrijving, :uur_locatie, :wst_code, :uur_commentaar, :pjt_code, :pjt_code_erp, :pjt_code_kort, kbg_code, :cfl_volgnummer, :cfl_omschrijving, :gbr_initialen, :gbr_naam, :cfl_datum_start_s, :cfl_datum_einde_s en :uur_commentaar_na.
- Bubs-interface-exactonline-factuur-regel-volledige-inhoud: the full description of the invoice line, built of individual parts.
- Bubs-interface-exactonline-factuur-tekst-geen-commentaar: text to use if there was no comment specified in the hour registration.
- Bubs-interface-exactonline-factuur-tekst-geen-locatie: text which should be used if no location was specified in hour registration.
- bubs-interface-exactonline-factuur-tekst-geen-proces-code: text to use as process code if there are direct hours registered on a project.
- bubs-interface-exactonline-factuur-tekst-geen-proces-omschrijving: text to use as process description if there are direct hours registered on a project.
- Bubs-interface-exactonline-formaat-datum: the (fixed) format for dates.
- Bubs-interface-exactonline-formaat-getal: the (fixed) format for numbers.
- Bubs-interface-exactonline-vlag-1-factuur-per-concept-regel: an invoice is made per draft invoice line if this profile option is set on 'Y'. Otherwise the rules are combined for each customer.

Sometimes, conversion invoices are used to fill Exact Online with an administration system. For this, the column Reference Detail Table is filled with '---'. The relevant profile options are:

- Bubs-interface-exactonline-factuur-product-conversie: unit which should be used for the conversion of invoices.
- bubs-interface-exactonline-factuur-kostenplaats-conversie: cost center for the conversion of invoices.

1.7.7 Achtergrondscript KING

The following background scripts are available for KING.

1.7.7.1 Extraction Sales Orders

Create a file with sales invoices which can be read using KING. See also Concep Invoices 450.

The format of the sales invoices can be send through a number of profile options:

- Bubs-interface-king-order-tarief-uren: the rate inside KING that is used for hours, possibly using the field :gbr_initialen.
- Bubs-interface-king-order-tarief-vaste-prijs: the rate inside KING that is used for fixed price processes.
- Bubs-interface-king-order-tarief-proces-units: the rate inside KING that is should be used for process units, possibly using the fields :ust_code, :usp_code, :unt_omschrijving, :ust_omschrijving, :usp_omschrijving, :unt_serienummer en :tut_toelichting.
- Bubs-interface-king-order-kop-regel-1: an optional head line on the invoice.
- Bubs-interface-king-order-kop-regel-2: an optional head line on the invoice.
- Bubs-interface-king-order-kop-regel-3: an optional headline on the invoice.

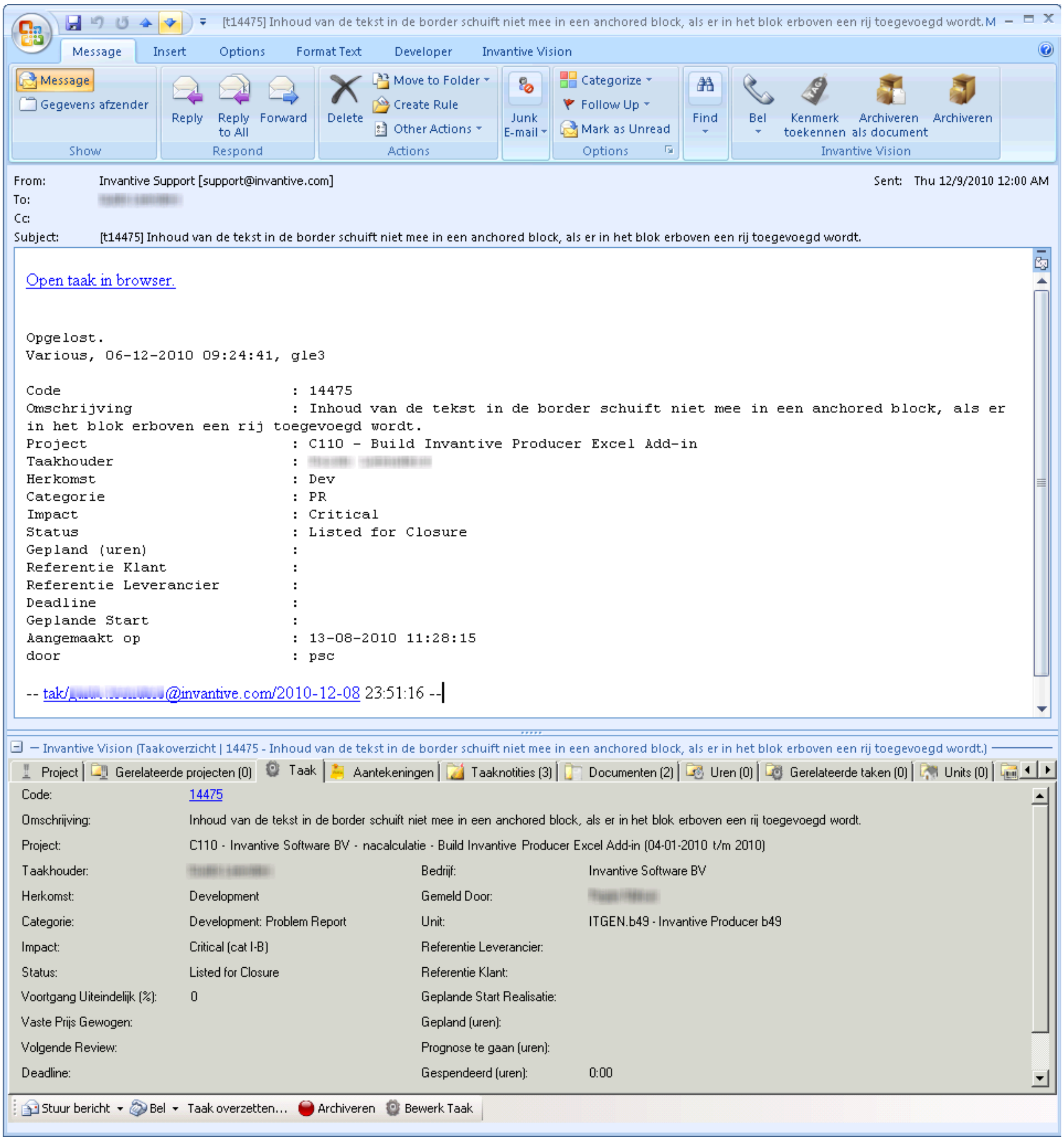
- Bubs-interface-king-order-voet-regel-1: an optional footnote on the invoice.
- Bubs-interface-king-order-voet-regel-2: an optional footnote on the invoice.
- Bubs-interface-king-order-voet-regel-3: an optional footnote on the invoice.
- Bubs-interface-king-order-formaat-arbeid: the description of the invoice line for hours, possibly using the fields :tak_code, :tak_omschrijving, :tak_referentie_klant, :tak_referentie_leverancier, :unt_omschrijving, :cfl_datum_start_l, :cfl_datum_einde_l, :uur_locatie, :cfl_datum_start_s, :cfl_datum_einde_s, :pjt_code_kort, :pjt_code_erp, :pjt_code, :kbg_code, :cfl_volgnummer en:cfl_omschrijving.
- Bubs-interface-king-order-regel-formaat-product: the description of the invoice line for process units, possibly using the fields :tak_code, :tak_omschrijving, :tak_referentie_klant, :tak_referentie_leverancier, :unt_omschrijving, :ust_code, :usp_code, :ust_omschrijving, :usp_omschrijving, :unt_serienummer, :tut_toelichting, :cfl_omschrijving, :pjt_code_kort, :pjt_code_erp, :pjt_code, :kbg_code, :cfl_volgnummer en :cfl_omschrijving.
- Bubs-interface-king-order-regel-formaat-vaste-prijs: the description of the invoice line of fixed price processes, possibly using the fields :tak_code, :tak_omschrijving, :tak_referentie_klant, :tak_referentie_leverancier, :pjt_code_kort, :pjt_code_erp, :pjt_code, :kbg_code, :cfl_volgnummer, :cfl_omschrijving, :unt_omschrijving en :uur_locatie.
- Bubs-interface-king-order-tekst-geen-commentaar: text to ue if no comment was specified in the hour registration.
- Bubs-interface-king-order-tekst-geen-locatie: text to use if no location was specified in hour registration.
- Bubs-interface-king-order-tekst-geen-proces-code: text to use as process code if there are direct hours registered on a project.
- Bubs-interface-king-order-tekst-geen-proces-omschrijving: text to use as process description if there are direct hours registered on a project.
- Bubs-interface-king-formaat-datum: the (fixed) format for dates.
- Bubs-interface-king-formaat-getal: the (fixed) format for numbers.

1.7.8 Workflow

In the following cases, default messages are sent automatically:

- The process keeper receives a status overview of a task in the event of a task being modified and the profile option 'bubs-tak-email-houder-bij-wijziging' is set to 'Y'.
- The process keeper receives a status overview of a task in the event of a task being modified and the profile option 'bubs-tne-email-houder-bij-wijziging' is set to 'Y'.

For example, such a message looks like this:


[t14475] Inhoud van de tekst in de border schuift niet mee in een anchored block, als er in het blok erboven een rij toegevoegd wordt. M
Message
Insert
Options
Format Text
Developer
Invantive Vision
Message
Gegevens afzender
Show
Reply
Reply to All
Forward
Respond
Delete
Move to Folder
Create Rule
Other Actions
Actions
Junk E-mail
Categorize
Follow Up
Mark as Unread
Options
Find
Bel
Kenmerk toekennen
Archiveren als document
Archiveren
Invantive Vision

From: Invantive Support [support@invantive.com]
To: [redacted]
Cc:
Subject: [t14475] Inhoud van de tekst in de border schuift niet mee in een anchored block, als er in het blok erboven een rij toegevoegd wordt.
Sent: Thu 12/9/2010 12:00 AM

Open taak in browser.

```
Opgelost.
Various, 06-12-2010 09:24:41, gle3

Code                             : 14475
Omschrijving                     : Inhoud van de tekst in de border schuift niet mee in een anchored block, als er
in het blok erboven een rij toegevoegd wordt.
Project                          : C110 - Build Invantive Producer Excel Add-in
Taakhouder                       : [redacted]
Herkomst                         : Dev
Categorie                        : PR
Impact                           : Critical
Status                           : Listed for Closure
Gepland (uren)                   :
Referentie Klant                 :
Referentie Leverancier           :
Deadline                         :
Geplande Start                   :
Aangemaakt op                    : 13-08-2010 11:28:15
door                             : psc
```

-- tak/[redacted]@invantive.com/2010-12-08 23:51:16 --

— Invantive Vision (Taakoverzicht | 14475 - Inhoud van de tekst in de border schuift niet mee in een anchored block, als er in het blok erboven een rij toegevoegd wordt.)

Project
Gerelateerde projecten (0)
Taak
Aantekeningen
Taaknotities (3)
Documenten (2)
Uren (0)
Gerelateerde taken (0)
Units (0)

Code: 14475
Omschrijving: Inhoud van de tekst in de border schuift niet mee in een anchored block, als er in het blok erboven een rij toegevoegd wordt.
Project: C110 - Invantive Software BV - nacalculatie - Build Invantive Producer Excel Add-in (04-01-2010 t/m 2010)
Taakhouder: [redacted]
Bedrijf: Invantive Software BV
Herkomst: Development
Gemeld Door: [redacted]
Categorie: Development: Problem Report
Unit: ITGEN.b49 - Invantive Producer b49
Impact: Critical (cat I-B)
Referentie Leverancier:
Status: Listed for Closure
Referentie Klant:
Voortgang Uiteindelijk (%): 0
Geplande Start Realisatie:
Vaste Prijs Gewogen:
Gepland (uren):
Volgende Review:
Prognose te gaan (uren):
Deadline:
Gespendeerd (uren): 0:00

Stuur bericht
Bel
Taak overzetten...
Archiveren
Bewerk Taak

Additionally, it is possible to set a custom message in the event the layout is not satisfactory. This can be done with Additional Business Rules 256.

1.7.9 Monitoring

Statistics are made available through the webserver. You need to request bubs_stats.do with the parameter COMMUNITY. The parameter need to have the same value as the profile option bubs-statistics-community. You can look up the standard statistics and the statistics for reading into Pandora FMS. You control this by using the FORMAT parameter that can be 'DEFAULT' or 'PANDORAFMS' respectively.

Finally, you have to specify which IP address ranges are permitted to retrieve the statistics. You can set this up with the profile option bubs-statistics-ipfilter.

By default, the statistics look as follows:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Statistics>
<Time>27-03-2011 00-07-33</Time>
<Statistic><Code>bubs-lce-max-usr</Code><Value>73</Value></Statistic>
<Statistic><Code>bubs-lce-max-pjt</Code><Value>121</Value></Statistic>
<Statistic><Code>bubs-lce-max-po</Code><Value>10</Value></Statistic>
<Statistic><Code>bubs-lce-max-wip</Code><Value>270</Value></Statistic>
<Statistic><Code>bubs-use-cnt-ftr</Code><Value>83</Value></Statistic>
<Statistic><Code>bubs-use-cnt-gbr</Code><Value>76</Value></Statistic>
<Statistic><Code>bubs-use-cnt-lvr</Code><Value>98</Value></Statistic>
<Statistic><Code>bubs-use-cnt-brt</Code><Value>5</Value></Statistic>
<Statistic><Code>bubs-use-cnt-mgn</Code><Value>7</Value></Statistic>
<Statistic><Code>bubs-use-cnt-vrd</Code><Value>1</Value></Statistic>
<Statistic><Code>bubs-use-cnt-ctt</Code><Value>26557</Value></Statistic>
<Statistic><Code>bubs-use-cnt-frl</Code><Value>292</Value></Statistic>
<Statistic><Code>bubs-use-cnt-obt</Code><Value>18404</Value></Statistic>
<Statistic><Code>bubs-use-cnt-kps</Code><Value>7949</Value></Statistic>
<Statistic><Code>bubs-use-cnt-ust</Code><Value>13</Value></Statistic>
<Statistic><Code>bubs-use-cnt-uur</Code><Value>77</Value></Statistic>
<Statistic><Code>bubs-use-cnt-dfe</Code><Value>15</Value></Statistic>
<Statistic><Code>bubs-use-cnt-pjt</Code><Value>122</Value></Statistic>
<Statistic><Code>bubs-use-cnt-odt</Code><Value>7576</Value></Statistic>
<Statistic><Code>bubs-use-cnt-tsg</Code><Value>16</Value></Statistic>
<Statistic><Code>bubs-use-cnt-bvg</Code><Value>405</Value></Statistic>
<Statistic><Code>bubs-use-cnt-kse</Code><Value>5</Value></Statistic>
<Statistic><Code>bubs-use-cnt-gsk</Code><Value>11</Value></Statistic>
<Statistic><Code>bubs-use-cnt-unt</Code><Value>155</Value></Statistic>
<Statistic><Code>bubs-use-cnt-bvd</Code><Value>4</Value></Statistic>
<Statistic><Code>bubs-use-cnt-cfl</Code><Value>9</Value></Statistic>
```

```
<Statistic><Code>bubs-use-cnt-gce</Code><Value>134</Value></Statistic>
<Statistic><Code>bubs-use-cnt-kbg</Code><Value>234</Value></Statistic>
<Statistic><Code>bubs-use-cnt-plt</Code><Value>8</Value></Statistic>
<Statistic><Code>bubs-use-cnt-tak</Code><Value>19</Value></Statistic>
<Statistic><Code>bubs-use-cnt-dct</Code><Value>28</Value></Statistic>
<Statistic><Code>bubs-use-cnt-wst</Code><Value>12</Value></Statistic>
<Statistic><Code>ora-cnt-object-invalid</Code><Value>175</Value></Statistic>
<Statistic><Code>ora-cnt-object</Code><Value>1389</Value></Statistic>
<Statistic><Code>ora-cnt-table</Code><Value>0</Value></Statistic>
<Statistic><Code>ora-use-max-segment</Code><Value></Value></Statistic>
<Statistic><Code>ora-use-sum-segment</Code><Value></Value></Statistic>
<Statistic><Code>itgen-cnt-errors</Code><Value>1634</Value></Statistic>
<Statistic><Code>ora-cnt-errors</Code><Value>3008</Value></Statistic>
<Statistic><Code>bubs-cnt-bjb-errors-hour</Code><Value>0</Value></Statistic>
<Statistic><Code>bubs-cnt-jmg-errors-hour</Code><Value>0</Value></Statistic>
<Statistic><Code>bubs-cnt-job-errors-hour</Code><Value>0</Value></Statistic>
<Statistic><Code>bubs-cnt-iae-hour</Code><Value>0</Value></Statistic>
<Statistic><Code>bubs-cnt-tse-hour</Code><Value>0</Value></Statistic>
<Statistic><Code>bubs-cnt-sdr-notresponding</Code><Value>0</Value></Statistic>
<Statistic><Code>bubs-cnt-bjb-running</Code><Value>0</Value></Statistic>
<Statistic><Code>bubs-cnt-usr-active-quarter</Code><Value>0</Value></Statistic>
<Statistic><Code>isg-server request url</Code><Value>1</Value></Statistic>
<Statistic><Code>dct-incorrect file size</Code><Value>0</Value></Statistic>
<Statistic><Code>vsd-incorrect financials</Code><Value>1</Value></Statistic>
<Statistic><Code>brt-slow delivery</Code><Value>0</Value></Statistic>
<Statistic><Code>db-text installed</Code><Value>1</Value></Statistic>
<Statistic><Code>lce-end</Code><Value>1</Value></Statistic>
<Statistic><Code>db-version</Code><Value>1</Value></Statistic>
```

```
<Statistic><Code>ora-par-memory_target</Code><Value>2147483648</Value></Statistic>
<Statistic><Code>ora-par-service_names</Code><Value>dvt11r2.invantive.local</Value></Statistic>
<Statistic><Code>ora-par-NLS_LANGUAGE</Code><Value>DUTCH</Value></Statistic>
<Statistic><Code>ora-par-NLS_CHARACTERSET</Code><Value>AL32UTF8</Value></Statistic>
<Statistic><Code>ora-uptime sec</Code><Value>866210</Value></Statistic>
<Statistic><Code>ora-hostname</Code><Value>ws86.invantive.local</Value></Statistic>
<Statistic><Code>ora-dbf-size mb</Code><Value>7358</Value></Statistic>
<Statistic><Code>ora-dbf-free mb</Code><Value>1054</Value></Statistic>
<Statistic><Code>ora-scn</Code><Value>42230530</Value></Statistic>
<Statistic><Code>ora-stat-logons cumulative</Code><Value>16828</Value></Statistic>
<Statistic><Code>ora-stat-logons current</Code><Value>91</Value></Statistic>
<Statistic><Code>ora-stat-session logical reads</Code><Value>723008721</Value></Statistic>
<Statistic><Code>ora-stat-physical read total bytes</Code><Value>93055778304</Value></Statistic>
<Statistic><Code>ora-stat-physical write total bytes</Code><Value>98078885376</Value></Statistic>
<Statistic><Code>ora-stat-db block gets</Code><Value>191726659</Value></Statistic>
<Statistic><Code>ora-stat-consistent gets</Code><Value>531282062</Value></Statistic>
<Statistic><Code>ora-stat-bytes sent via sqlnet to client</Code><Value>1703937703</Value></Statistic>
<Statistic><Code>ora-stat-bytes received via sqlnet from client</Code><Value>6992327420</Value></Statistic>
</Statistics>
```

1.8 Performance

This chapter describes the possibilities for improving performance.

1.8.1 Scalability

Invantive Estate is default tested on 1 CPU server hardware with:

- 100,000 documents and URL-s.
- 1.000 projects

If you will be using larger numbers, please first run a performance test on the hardware.

1.8.2 Improve Performance

Perform the following actions to improve performance:

- Set the logging level of the web server to ‘error’ in site....properties.
- Update the statistics monthly with a background process.

1.8.3 PL/SQL Profiling

With PL/SQLprofiling measurements can be executed on the runtime of PL/SQL-code. In the screen Settings 336 you can turn on PL/SQL profiling for all PL/SQL calls from screens and background jobs.

Steps:

- Enable profiling via ‘Setting’.
- Profiling takes a lot of I/O bandwidth. Thus, if possible you must first turn off the background schedulers.
- In site.properties use the user ‘bubs’ instead of ‘bubs_tomcat’ because of rights:

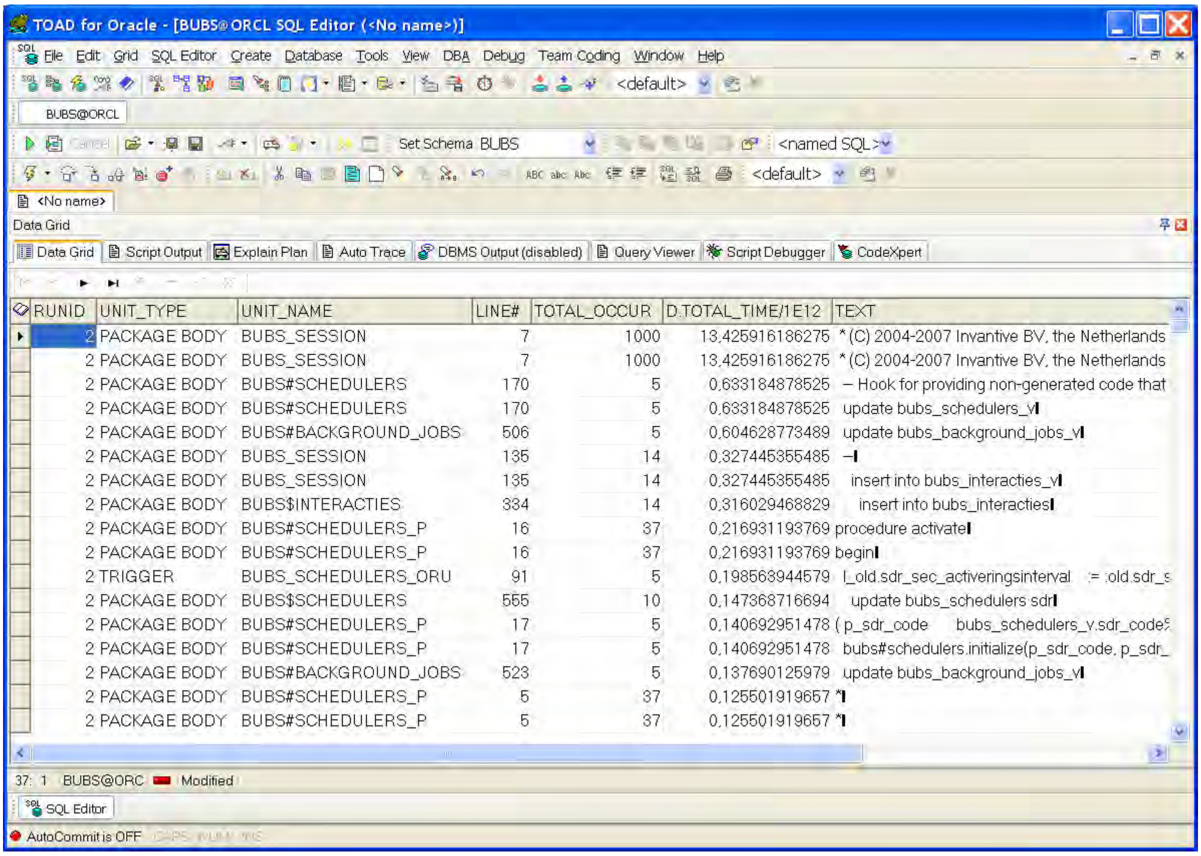
```
bubs_tomcat.user=bubs
bubs_tomcat.password=bubs
```

- Be careful: this allows the application complete access to Invantive Estate, not just through allowed
- !
- Restart Tomcat (‘/etc/init.d/bubs3 restart’ or ‘net stop “Apache Tomcat”, net start “Apache Tomcat"’).

You can request the results via:

```
select r.runid
,      u.unit_type
,      u.unit_name
,      d.line#
,      d.total_occur
,      d.total_time/1e9 total_time_ms
,      s.text
from   plsql_profiler_runs r
join   plsql_profiler_units u
on     r.runid = u.runid
join   plsql_profiler_data d
on     u.unit_number = d.unit_number
and    u.runid       = d.runid
/* Optioneel */
join   user_source s
on     s.line = d.line#
and    s.name = u.unit_name
and    s.type = u.unit_type
where  r.runid = :runid
and    d.total_time/1e9 > 1/100 /* Meer dan 1/100 seconde. */
order
by     d.total_time desc
```

The output looks as follows:


TOAD for Oracle - [BUBS@ORCL SQL Editor (<No name>)]
File Edit Grid SQL Editor Create Database Tools View DBA Debug Team Coding Window Help
<default>
BUBS@ORCL
Cancel
Set Schema BUBS
<named SQL>
<default>
<No name>
Data Grid
Data Grid
Script Output
Explain Plan
Auto Trace
DBMS Output (disabled)
Query Viewer
Script Debugger
CodeXpert
37: 1
BUBS@ORC
Modified
SQL Editor
AutoCommit is OFF

RUNID	UNIT_TYPE	UNIT_NAME	LINE#	TOTAL_OCCUR	D.TOTAL_TIME/1E12	TEXT
2	PACKAGE BODY	BUBS_SESSION	7	1000	13,425916186275	* (C) 2004-2007 Invantive BV, the Netherlands
2	PACKAGE BODY	BUBS_SESSION	7	1000	13,425916186275	* (C) 2004-2007 Invantive BV, the Netherlands
2	PACKAGE BODY	BUBS#SCHEDULERS	170	5	0,633184878525	-- Hook for providing non-generated code that
2	PACKAGE BODY	BUBS#SCHEDULERS	170	5	0,633184878525	update bubs_schedulers_v▌
2	PACKAGE BODY	BUBS#BACKGROUND_JOBS	506	5	0,604628773489	update bubs_background_jobs_v▌
2	PACKAGE BODY	BUBS_SESSION	135	14	0,327445355485	--▌
2	PACKAGE BODY	BUBS_SESSION	135	14	0,327445355485	insert into bubs_interacties_v▌
2	PACKAGE BODY	BUBS$INTERACTIES	334	14	0,316029468829	insert into bubs_interacties▌
2	PACKAGE BODY	BUBS#SCHEDULERS_P	16	37	0,216931193769	procedure activate▌
2	PACKAGE BODY	BUBS#SCHEDULERS_P	16	37	0,216931193769	begin▌
2	TRIGGER	BUBS_SCHEDULERS_ORU	91	5	0,198563944579	l_old.sdr_sec_activeringsinterval := :old.sdr_s
2	PACKAGE BODY	BUBS$SCHEDULERS	555	10	0,147368716694	update bubs_schedulers sdr▌
2	PACKAGE BODY	BUBS#SCHEDULERS_P	17	5	0,140692951478	(p_sdr_code bubs_schedulers_v.sdr_code
2	PACKAGE BODY	BUBS#SCHEDULERS_P	17	5	0,140692951478	bubs#schedulers.initialize(p_sdr_code, p_sdr_
2	PACKAGE BODY	BUBS#BACKGROUND_JOBS	523	5	0,137690125979	update bubs_background_jobs_v▌
2	PACKAGE BODY	BUBS#SCHEDULERS_P	5	37	0,125501919657	*▌
2	PACKAGE BODY	BUBS#SCHEDULERS_P	5	37	0,125501919657	*▌

It is also possible to profile PL/SQL procedures manually, with:

```
declare
  l varchar2(2000);
begin
  dbms_profiler.start_profiler();
  dbms_output.put_line('s=' || to_char(sysdate, 'hh24miss'));
  for i in 1..1000 loop
    select cig_omschrijving
    into l
    from bubs_mijn_rechten_r
    ;
  end loop;
  dbms_output.put_line(to_char(sysdate, 'hh24miss'));
  dbms_profiler.stop_profiler();
end;
```

1.8.4 SQL Trace of Outlook Add-in

To save the SQL statements in a file the following code needs to be part of app.config or web.config:

```
<system.diagnostics>
  <sources>
    <source name="System.ServiceModel" switchValue="Error">
      <listeners>
        <add name="xmlTrace" />
      </listeners>
    </source>
```

```
      <source name="System.ServiceModel.MessageLogging"
switchValue="Verbose">
        <listeners>
          <add name="xmlTrace" />
        </listeners>
      </source>
    </sources>
    <sharedListeners>
      <add name="xmlTrace" type="System.Diagnostics.XmlWri-
terTraceListener" initializeData="C:\temp\client_verbose.svclog"
/>
    </sharedListeners>
    <trace autoflush="true">
      <listeners>
        <add name="xmlDataTrace" traceOutputOptions="Call-
stack,DateTime,LogicalOperationStack,ProcessId,ThreadId,Time-
stamp" type="System.Diagnostics.XmlWriterTraceListener" initia-
lizeData="C:\temp\client_data_verbose.svclog" />
      </listeners>
    </trace>
  </system.diagnostics>
```

In the specified file (in this example ‘C: \ temp \ client_verbose.svclog’), the SQL statements will be logged. This file can be read with SvcTraceViewer (can be found in the Windows SDK, but also in the Invantive tools).

1.9 Frequently asked questions

The use of Invantive Estate results in frequently asked questions. These questions and their respective answers are added to the chapter as an aid for self-assistance.

1.9.1 How can I partially release a provision?

In projects often an amount is registered on a cost category to serve as a provision, for example, for vacancy or setbacks. However, never a direct posting will be made on this cost category. During review moments it is determined which part of these provisions can be released in favor of the result.

Follow these steps to partially release a provision:

- Select a ‘Release Deviation’ from the list as described in Comment Deviation 75.
- Add a latest estimate using the screen Latest Estimates 67 for this cost category which shows the amount that cannot be released.

Example: the provisions is Eur 300k. Eur 100k will be released. Displaying is turned on and the latest estimate is added as 300k - 100k = Eur 200k. The 100k which is released is added to the project results.

1.9.2 Handling Sub- and Master Projects

In the screen Projects 124 you can register and change projects. There are three possible project types:

- An individual project: this may include financial data and reporting.
- A subproject: this may include financial data and reporting. Moreover, they can be consolidated and reported within a master project.
- A master project: it is not possible to include independent financial data and reporting. Ho-

wever, the numbers of the underlying subprojects can be consolidated and reported.

Changing an Individual Project into a Master Project

Perform the following steps to turn an individual project into a master project:

- Make sure your filter is empty.
- Give the existing project a temporary name: Go to Projects 124 and select the project. Change the code of the project and select 'Save'.
- Create a new project as a master project. This can be done by creating a new project, but also through Copy Projects 128 and just copy the project and subsequently change the project type from 'Individual Project' to 'Master Project'.
- Change the project type of the old project to 'Subproject'.
- Select in the data of the old project the new master project as master project.
- Enter the cost type prefix. This prefix must be unique for all subprojects within the master project. The prefix is used to make the cost category of each subproject unique in the case of consolidated reporting.
- Press 'Save'.

Usage

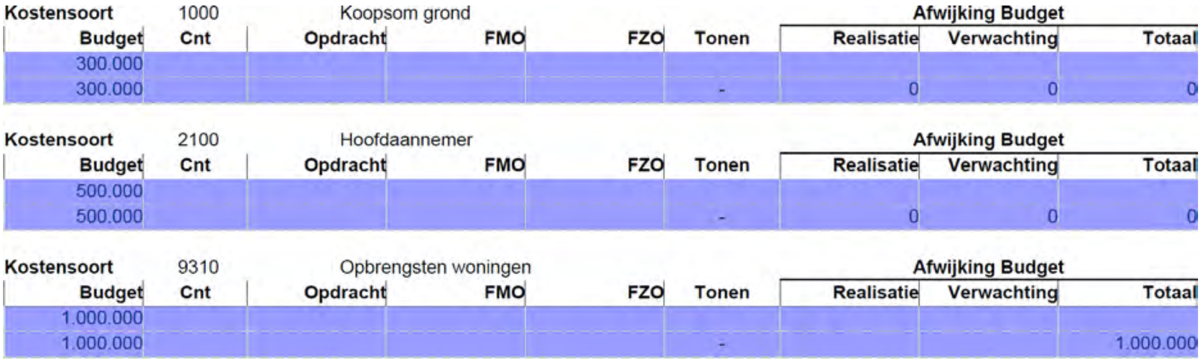
You can have multiple subprojects under one master project.

Uncheck 'Merge Subprojects' in My Preferences 41 if you do not want consolidated reporting or place a check mark for consolidated reporting.

1.9.3 Why the revenue budget always should be substantiated?

Question:

Create a project with, for example, the following budget, but do not enter any revenues:



Kostensoort	1000	Koopsom grond				**Afwijking Budget**		
Budget	**Cnt**	**Opdracht**	**FMO**	**FZO**	**Tonen**	**Realisatie**	**Verwachting**	**Totaal**
300.000								
300.000					-	0	0	0

Kostensoort	2100	Hoofdaannemer				**Afwijking Budget**		
Budget	**Cnt**	**Opdracht**	**FMO**	**FZO**	**Tonen**	**Realisatie**	**Verwachting**	**Totaal**
500.000								
500.000					-	0	0	0

Kostensoort	9310	Opbrengsten woningen				**Afwijking Budget**		
Budget	**Cnt**	**Opdracht**	**FMO**	**FZO**	**Tonen**	**Realisatie**	**Verwachting**	**Totaal**
1.000.000								
1.000.000					-			1.000.000

You will get a negative forecast:

	Budget	Afwijking	Prognose
Kosten	800.000	0	800.000
Opbrengsten	1.000.000	-1.000.000	0
Projectresultaat	**200.000**	**-1.000.000**	**-800.000**
Projectresultaat (%)	**25,00**		**-100,00**

In other words:

- For the costs the calculation model assumes that the entire budget will be used (no release).

- For the income the calculation model assumes that there will be no revenues (full release).

Why is the forecast not just equal to the budget with a profit of EUR 200.000 (EUR 1.000.000 revenue - cost EUR 800.000)?

Answer:

For the example shown this is a legitimate question. There are no revenues at all, so probably (and hopefully), the budget revenues need to be further broken down into different revenue types.

Suppose that one revenue was known for cost category 9310 for an amount of EUR 900,000. What should be the prognosis in this situation? There are two possible approaches:

- The breakdown of the remaining EUR 650,000 must be made soon and the forecast result of the project is EUR 200,000 (EUR 1,000,000 revenue - cost EUR 800,000).
- The project does not meet its expectations and the originally budgeted EUR 1,000,000 is certainly not realized. The project developer has devised an alternative, but unfortunately the expected revenue is only EUR 900,000. The forecast of the project result is EUR 100,000 (EUR 900,000 revenue - cost EUR 800,000).

The forecast is always based on the most adverse scenario (worst case). In this case, the second choice is the most certain. The project developer can quickly add an extra return if indeed he's expecting a result of EUR 200,000 under the first approach.

To keep a predictable model it has been chosen in case that no revenues are entered yet, to assume that there will be no revenues.

1.10 Installation

The installation of the application requires several changes to the configuration files. This chapter describes the possible changes and the way they must be made.

1.10.1 System Requirements

Client (PC, tablet, smartphone)

To use Invantive Estate on your PC or terminal server you will need the following software including licenses:

- Internet Explorer 9.0, Firefox 10, Chrome 20, KTHML 4 or Safari 5 or newer.
- Microsoft Office 2010 or Microsoft Office 2013 (only on Microsoft Windows).
- Microsoft .NET 4.5.
- Invantive Webservice or local drivers.
- Minimum 2 GB of internal memory.
- Screen resolution of 1280 x 1024 or higher.
- Adobe Acrobat Reader 8, 9, 10 or 11.
- Oracle user license.
- Link to Microsoft Exchange recommended for time registration.

To use Invantive Estate on your Mac, table or smartphone you will need the following software including licenses:

- Internet Explorer 9.0, Firefox 10, Chrome 20, KTHML 4 or Safari 5 or newer.
- Adobe Acrobat Reader 8, 9, 10 or 11.

- Oracle user license.

On-Premises

For the use of Invantive Estate as server within the private network you will need (so-called "on-premises" use):

- Operating system: Windows 2008 R1 Service Pack 2 or Windows 2008 R2. Various Unix platforms. Windows 2012 is not yet supported.
- Database management system: Oracle 11g Release 2 Standard Edition One 11.2.0.3.
- Application server: Tomcat 7.0.33 or newer with Oracle Java SDK 1.7 update 9 or newer, Microsoft .NET 4.5., Microsoft IIS 7.0 or Microsoft IIS 7.5.
- Minimum of 4 Gb internal memory.
- Screen resolution of 1280 x 1024 or higher.

Antivirus and Firewall Software

Finally, combined use of anti-virus and firewall products together with Invantive Estate is only allowed on the server for the large scale business editions. It is necessary to purchase extra time for configuration. Editions targeted at consumers and small businesses are not supported because they are not designed for use in server environments.

The anti-virus software should at least disable access control on files for:

- oracle.exe
- ctxhx.exe
- tnslsnr.exe
- nmesrvc.exe
- java.exe
- tomcat6.exe

Moreover, it is recommended to turn off the database scan and the writing and reading of files with the extensions: *. xml, *. txt, *. log and *. tmp.

To install Invantive Estate you need to contact Invantive 630.

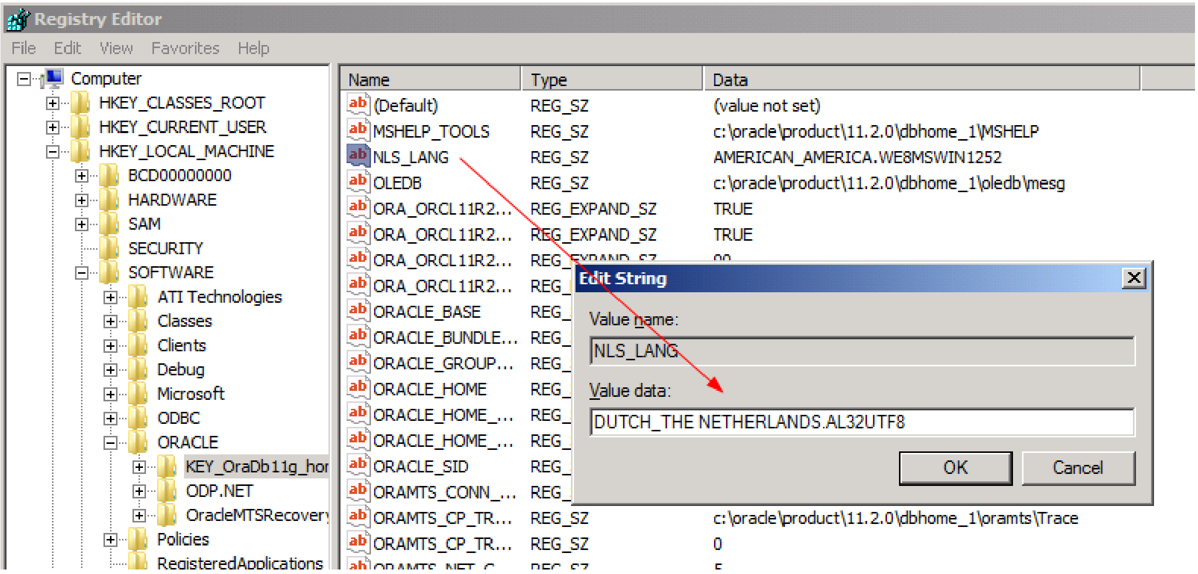
1.10.2 Installation and Upgrade

This chapter contains the steps necessary to install Invantive Estate on a server.

1.10.2.1 Installation Database Server

Perform the following steps for an installation or an upgrade:

- Check if Oracle RDBMS 11.2.0.3 Standard Edition One, Standard Edition or Enterprise Edition is installed and configured (see next chapter for the steps 511). The functioning of Invantive Estate with other Oracle RDBMS versions is not guaranteed.
- The database character set must be AL32UTF8.
- [UNIX/Linux] The NLS_LANG environment variable needs to be set to ‘DUTCH_THE NETHERLANDS.AL32UTF8’ for all users, on the web server and on the database server.
- [Windows] The HKLM\Software\Oracle\Key_Ora*\NLS_LANG register variable needs to be set to ‘DUTCH_THE NETHERLANDS.AL32UTF8’ for all users, on the web server and on the database server:


Registry Editor
File Edit View Favorites Help
Computer
HKEY_CLASSES_ROOT
HKEY_CURRENT_USER
HKEY_LOCAL_MACHINE
BCD00000000
HARDWARE
SAM
SECURITY
SOFTWARE
ATI Technologies
Classes
Clients
Debug
Microsoft
ODBC
ORACLE
KEY_OraDb11g_hor
ODP.NET
OracleMTSRecovery
Policies
RegisteredApplications
Name
Type
Data
Edit String
OK
Cancel

Name	Type	Data
(Default)	REG_SZ	(value not set)
MSHELP_TOOLS	REG_SZ	c:\oracle\product\11.2.0\dbhome_1\MSHELP
NLS_LANG	REG_SZ	AMERICAN_AMERICA.WE8MSWIN1252
OLEDB	REG_SZ	c:\oracle\product\11.2.0\dbhome_1\oledb\mesg
ORA_ORCL11R2...	REG_EXPAND_SZ	TRUE
ORA_ORCL11R2...	REG_EXPAND_SZ	TRUE
ORAMTS_CP_TR...	REG_SZ	c:\oracle\product\11.2.0\dbhome_1\oramts\Trace
ORAMTS_CP_TR...	REG_SZ	0

Value name: NLS_LANG

Value data: DUTCH_THE NETHERLANDS.AL32UTF8

- Depending on the prevailing security policy you might want to turn off the automatic blocking of accounts by several false attempts to log on. It is common that a password is changed and the auto-retry functionality of Invantive Estate makes that an account will be blocked. Log on as ‘sys’ (for example with SQL*Plus) and execute:

```
alter profile default
limit
failed_login_attempts unlimited
password_life_time unlimited
password_reuse_time unlimited
password_reuse_max unlimited
password_lock_time 1
password_grace_time 30;
```

- Possibly change the global name of the service:

```
alter database rename global_name to "orcl11r1.NAAMBEDRIJF.nl"
scope=spfile; -- 11g R1
alter database rename global_name to "orcl11r2.NAAMBEDRIJF.nl";
-- 11g R2
```

- If necessary, change the name under which the database register with the listener:

```
alter system set service_names='orcl11r1.NAAMBEDRIJF.nl' sco-
pe=spfile;
alter system set db_domain='NAAMBEDRIJF.nl' scope=spfile;
```

- Change the NLS settings of the database server:

```
alter system set nls_language='DUTCH' scope=spfile;
alter system set nls_territory='THE NETHERLANDS' scope=spfile;
```

- Change the parameter memory_target in at least 40 MB times the number of simultaneous users with a minimum of 768 MB, for example, with:

```
alter system set memory_target=512m scope=spfile;
```

- Put memory_max_target at at least the same value as memory_target and possibly higher.
- Remember to put sga_target and pga_aggregate_target to 0, for example, with:

```
alter system set sga_target=0 scope=spfile;
alter system set pga_aggregate_target=0 scope=spfile;
alter system set shared_pool_reserved_size=0 scope=spfile;
```

- Make sure that dumps do not take up the entire server:

```
alter system set max_dump_file_size="8M";
```

- Check that automatic memory management is used optimally:

```
select name
, value
from   v$parameter
where  1=1
and    name like '%size'
and    value <> '0'
and    name not like 'sga%'
and    name not like 'db_block%'
and    name not like 'max_dump%'
and    name not like '%percent%'
and    name not like '%message%'
and    name not like 'object_cache%'
and    name not like 'db_recovery_file_dest_size%'
```

- To prevent the flooding of the disks in the case of malfunctions you might want to ease the automatic registration of incidents.

```
$ adrci
#
# Reduce minimum duration for trace files to 2 hours.
# And 8 hours for incidents.
#
set control (shortp_policy = 2)
set control (longp_policy = 8)
#
# Or regularly execute:
#
set base /opt/prd/oracle
show homes

set homepath diag/rdbms/prd11r2/prd11r2
show incident
purge -age 1440
set control (shortp_policy = 2)
set control (longp_policy = 8)

set homepath diag/tnslsnr/ws86/listener
show incident
purge -age 1440
```

- You should change the settings for the database optimizer if the web frontend does not respond fast for example in the processes screen and in case you make use of the <OMGEVING>_web schedule for the web frontend:

```
alter system set "_optimizer_cost_based_transformation" = off
scope=both
```

- You can check if the data ends up in the right place in a production environment by changing the log file several times using the underlying statement. If necessary, change the log_archive_dest_1 parameter.

```
alter system switch logfile
```

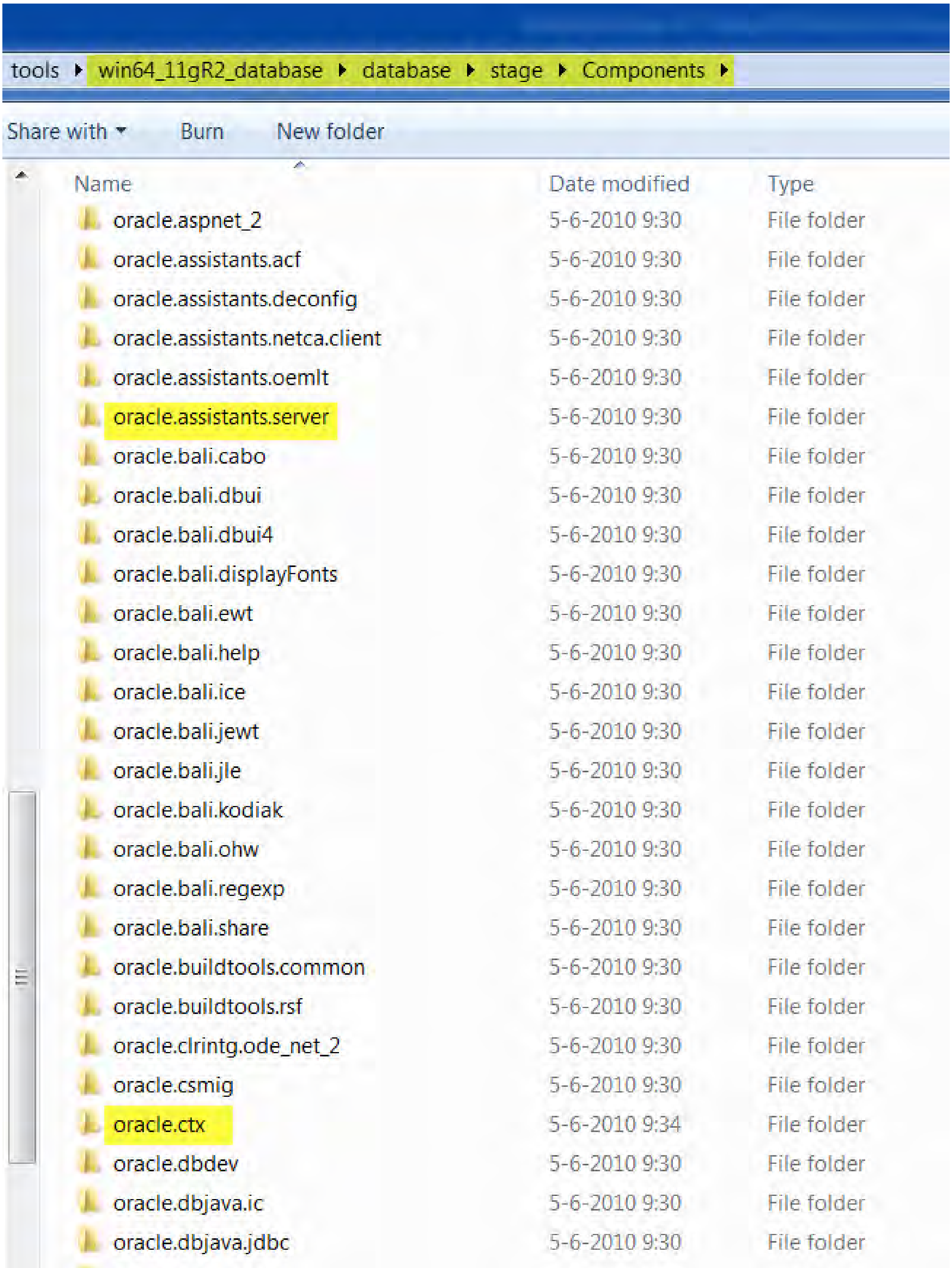
- Within demo installations you can avoid the possibly massive startup of database jobs and the corresponding inertia by turning them off:

```
begin
  for r_job
  in
  ( select sjb.owner
    ,      sjb.job_name
    ,      sjb.enabled
    from   dba_scheduler_jobs sjb
    where  sjb.enabled = 'TRUE'
    order
    by     sjb.owner
    ,      sjb.job_name
  )
  loop
    begin
      dbms_scheduler.stop_job(r_job.owner || '.' || r_job.job_-
name, true);
    exception
      when others
      then
        null;
    end;
    dbms_scheduler.disable(r_job.owner || '.' || r_job.job_na-
me);
  end loop;
end;
```

Installation Oracle 11.2.0.3 on Windows

Perform the next steps to install Oracle:

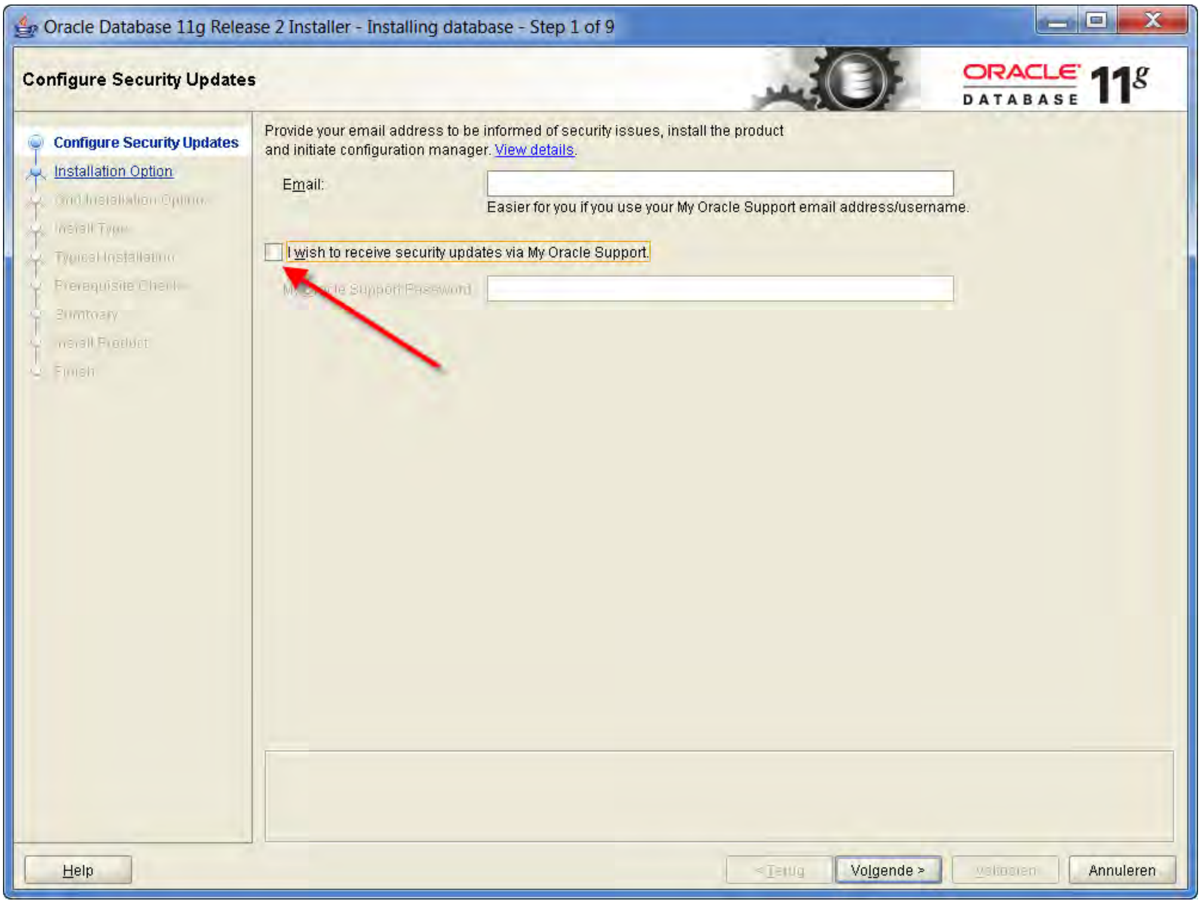
- Unzip the files ‘win64_11gR2_database_1of2.zip’ and ‘win64_11gR2_database_2of2.zip’ in the same folder, for example, ‘win64_11gR2_database’. If you use ‘Extract All’ in the Microsoft Windows explorer you need to change the proposed folder name. Accept the warning that the files will be merged.
- Make sure that all extracted files from both zip files end up in the same map. You can verify this by checking that in ‘database/stage/Components’ there will be a folder ‘oracle.ctx’. If this is not going well, then the installation will complain about the missing parts of the installation files. The result is for example:



tools ▸ win64_11gR2_database ▸ database ▸ stage ▸ Components ▸
Share with ▾
Burn
New folder

Name	Date modified	Type
oracle.aspnet_2	5-6-2010 9:30	File folder
oracle.assistants.acf	5-6-2010 9:30	File folder
oracle.assistants.deconfig	5-6-2010 9:30	File folder
oracle.assistants.netca.client	5-6-2010 9:30	File folder
oracle.assistants.oemlt	5-6-2010 9:30	File folder
oracle.assistants.server	5-6-2010 9:30	File folder
oracle.bali.cabo	5-6-2010 9:30	File folder
oracle.bali.dbui	5-6-2010 9:30	File folder
oracle.bali.dbui4	5-6-2010 9:30	File folder
oracle.bali.displayFonts	5-6-2010 9:30	File folder
oracle.bali.ewt	5-6-2010 9:30	File folder
oracle.bali.help	5-6-2010 9:30	File folder
oracle.bali.ice	5-6-2010 9:30	File folder
oracle.bali.jewt	5-6-2010 9:30	File folder
oracle.bali.jle	5-6-2010 9:30	File folder
oracle.bali.kodiak	5-6-2010 9:30	File folder
oracle.bali.ohw	5-6-2010 9:30	File folder
oracle.bali.regexp	5-6-2010 9:30	File folder
oracle.bali.share	5-6-2010 9:30	File folder
oracle.buildtools.common	5-6-2010 9:30	File folder
oracle.buildtools.rsf	5-6-2010 9:30	File folder
oracle.clrintg.ode_net_2	5-6-2010 9:30	File folder
oracle.csmig	5-6-2010 9:30	File folder
oracle.ctx	5-6-2010 9:34	File folder
oracle.dbdev	5-6-2010 9:30	File folder
oracle.dbjava.ic	5-6-2010 9:30	File folder
oracle.dbjava.jdbc	5-6-2010 9:30	File folder

- Start ‘setup.exe’.
- In the first screen it is usually recommended given the network configuration and security rules to turn off the automatically log on to Metalink::



Oracle Database 11g Release 2 Installer - Installing database - Step 1 of 9

Configure Security Updates

Provide your email address to be informed of security issues, install the product and initiate configuration manager. View details.

Email:

Easier for you if you use your My Oracle Support email address/username.

☐ I wish to receive security updates via My Oracle Support.

My Oracle Support Password:

ORACLE DATABASE 11g
Configure Security Updates
Installation Option
Grid Installation Option
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Install Product
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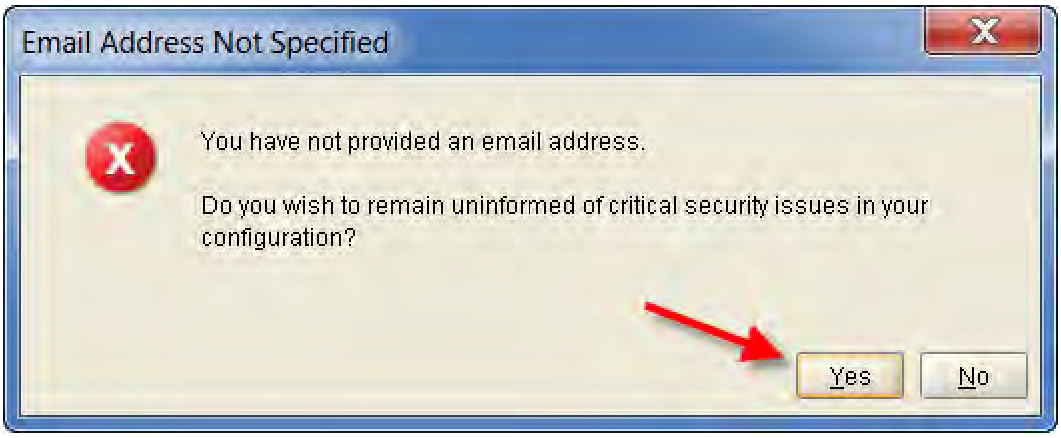
- Select ‘Next’ and choose ‘Yes’ when the warning appears.

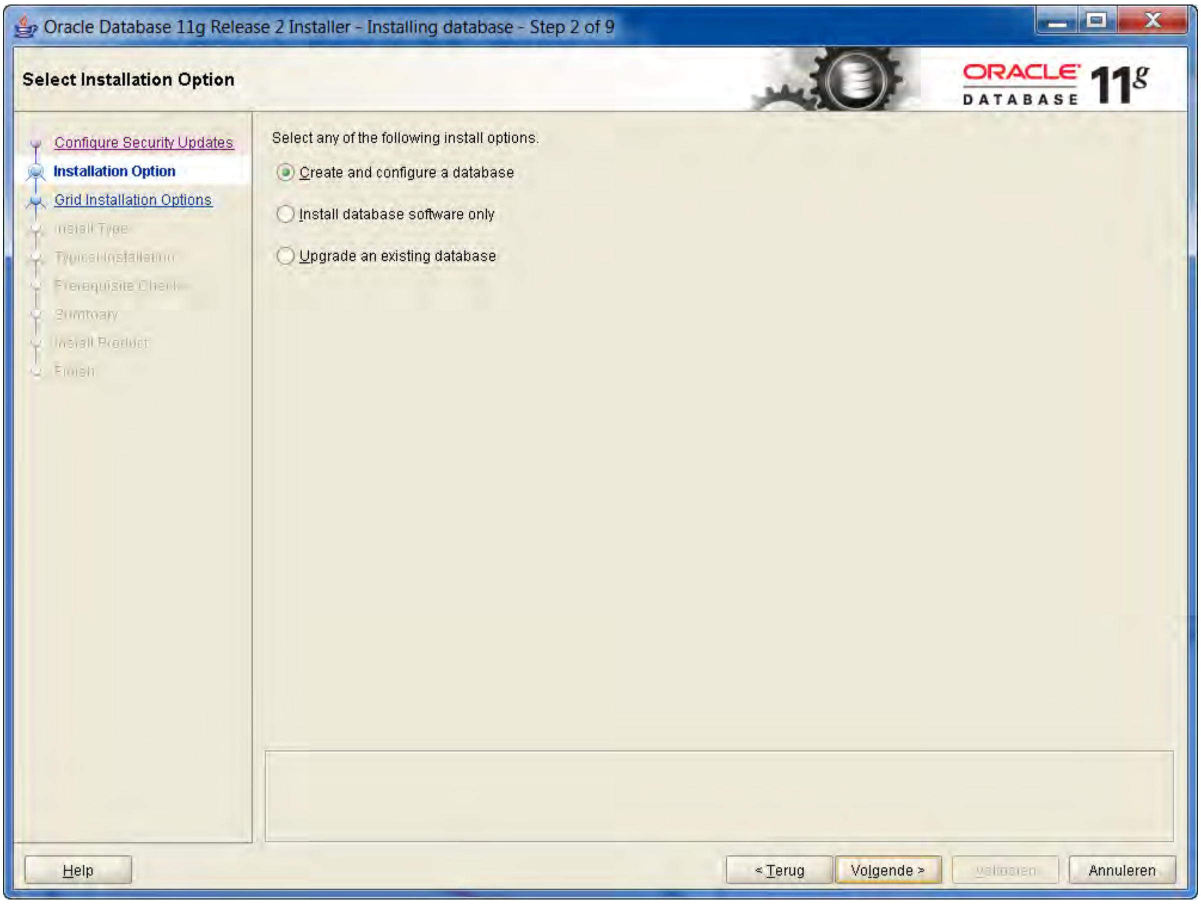


Email Address Not Specified

You have not provided an email address.

Do you wish to remain uninformed of critical security issues in your configuration?

- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 2 of 9
ORACLE DATABASE 11g
Configure Security Updates
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Select Installation Option

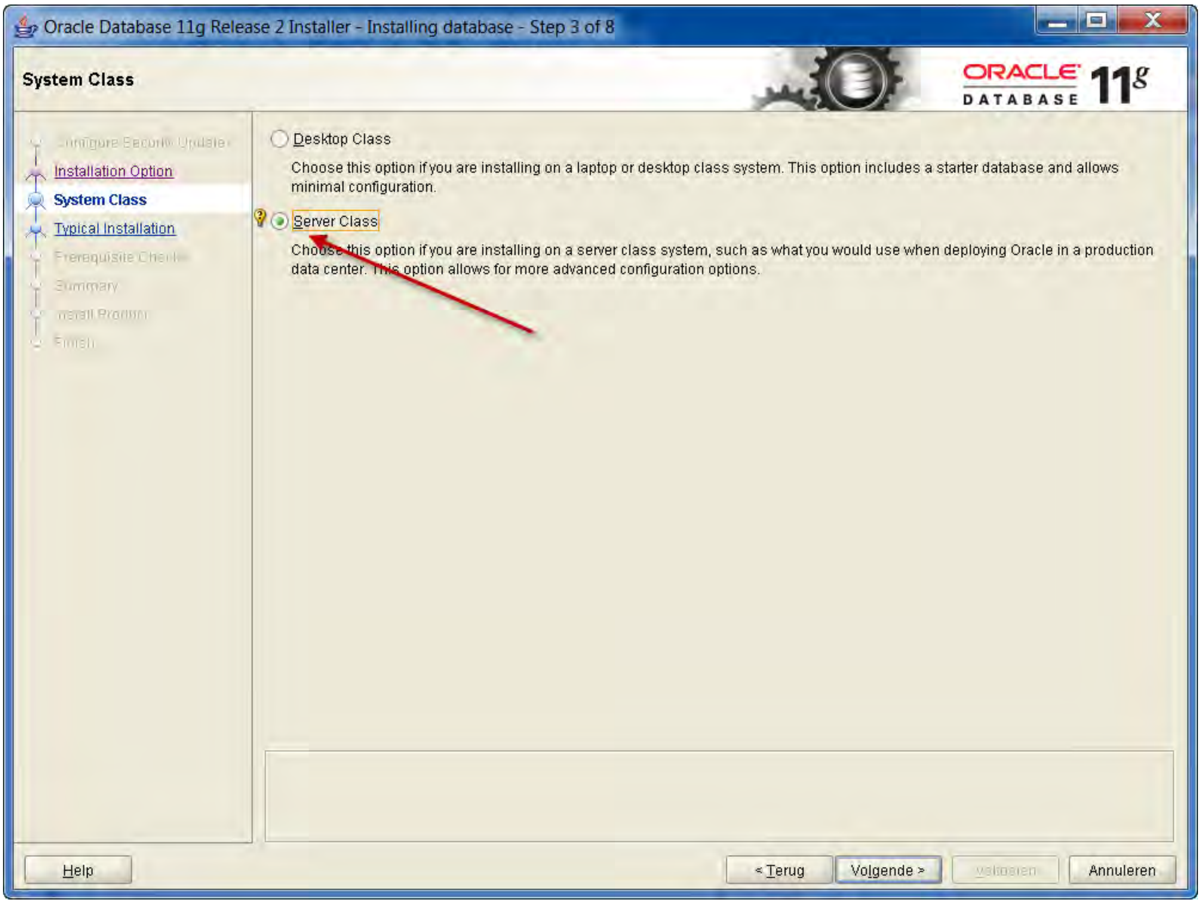
Select any of the following install options.

● Create and configure a database

○ Install database software only

○ Upgrade an existing database

- Select ‘Next’.
- The following screen appears:


Configure Security Updates
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Oracle Database 11g Release 2 Installer - Installing database - Step 3 of 8

System Class

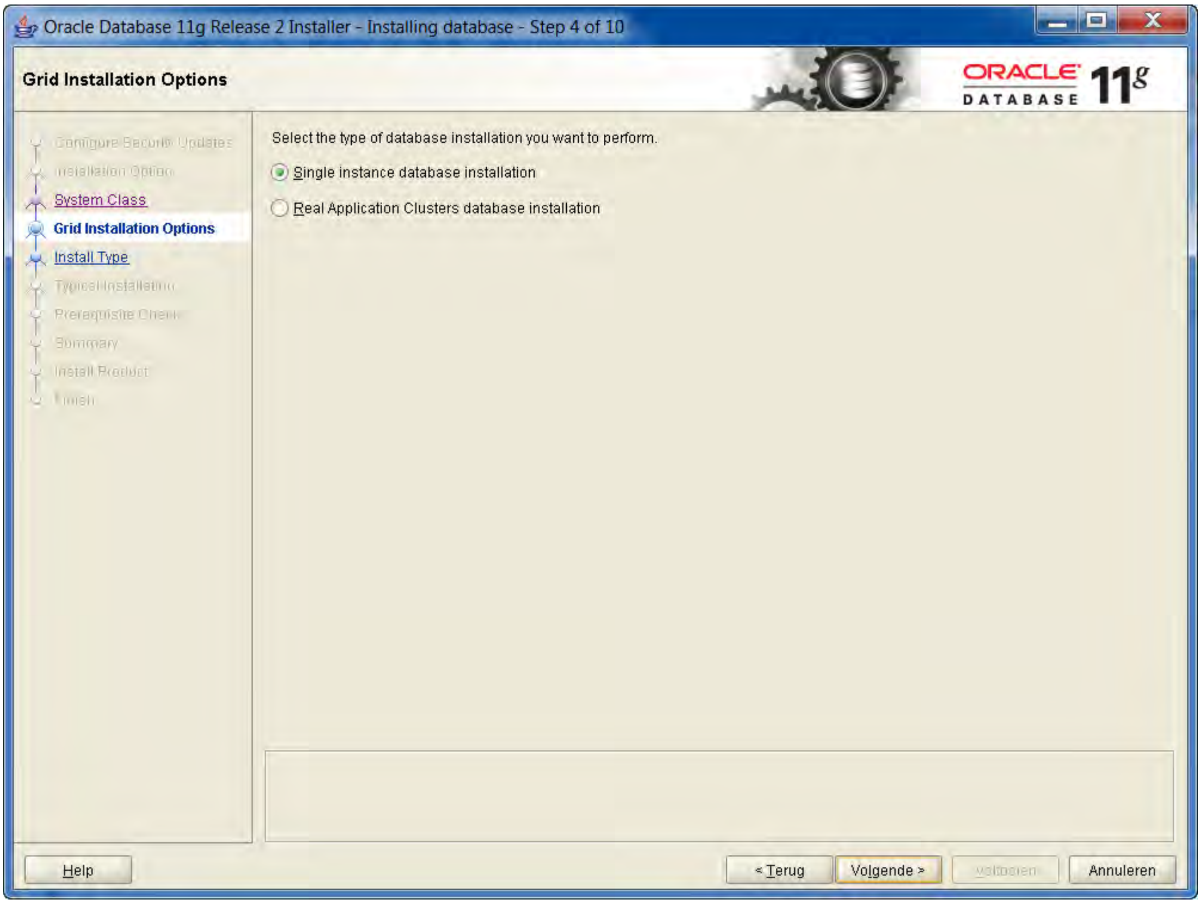
○ Desktop Class

Choose this option if you are installing on a laptop or desktop class system. This option includes a starter database and allows minimal configuration.

● Server Class

Choose this option if you are installing on a server class system, such as what you would use when deploying Oracle in a production data center. This option allows for more advanced configuration options.

- Select ‘Server Class’ and then select ‘Next’.
- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 4 of 10
Grid Installation Options
ORACLE DATABASE 11g
Configure Security Updates
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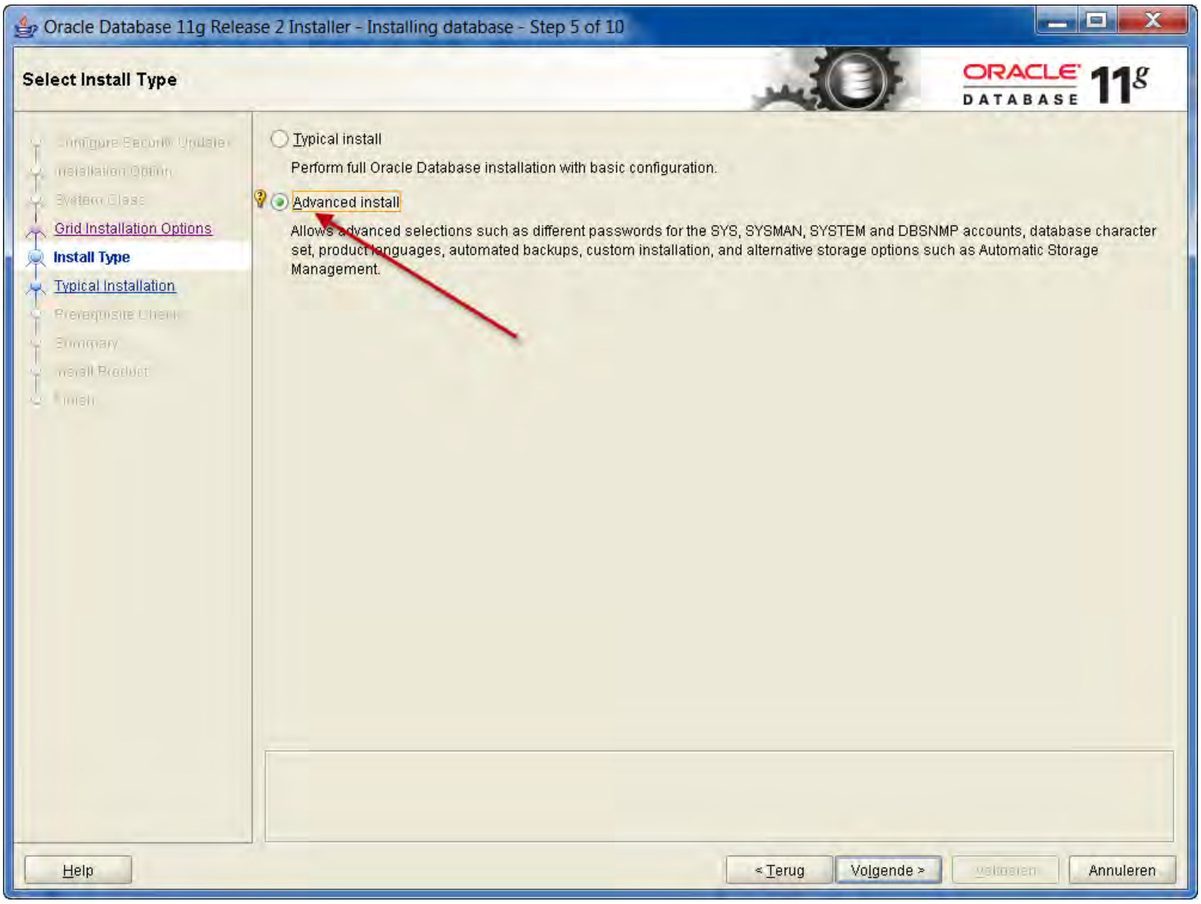
Select the type of database installation you want to perform.

● Single instance database installation

○ Real Application Clusters database installation

- Select 'Next'.
- The following screen appears:



Oracle Database 11g Release 2 Installer - Installing database - Step 5 of 10
ORACLE DATABASE 11g
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Select Install Type

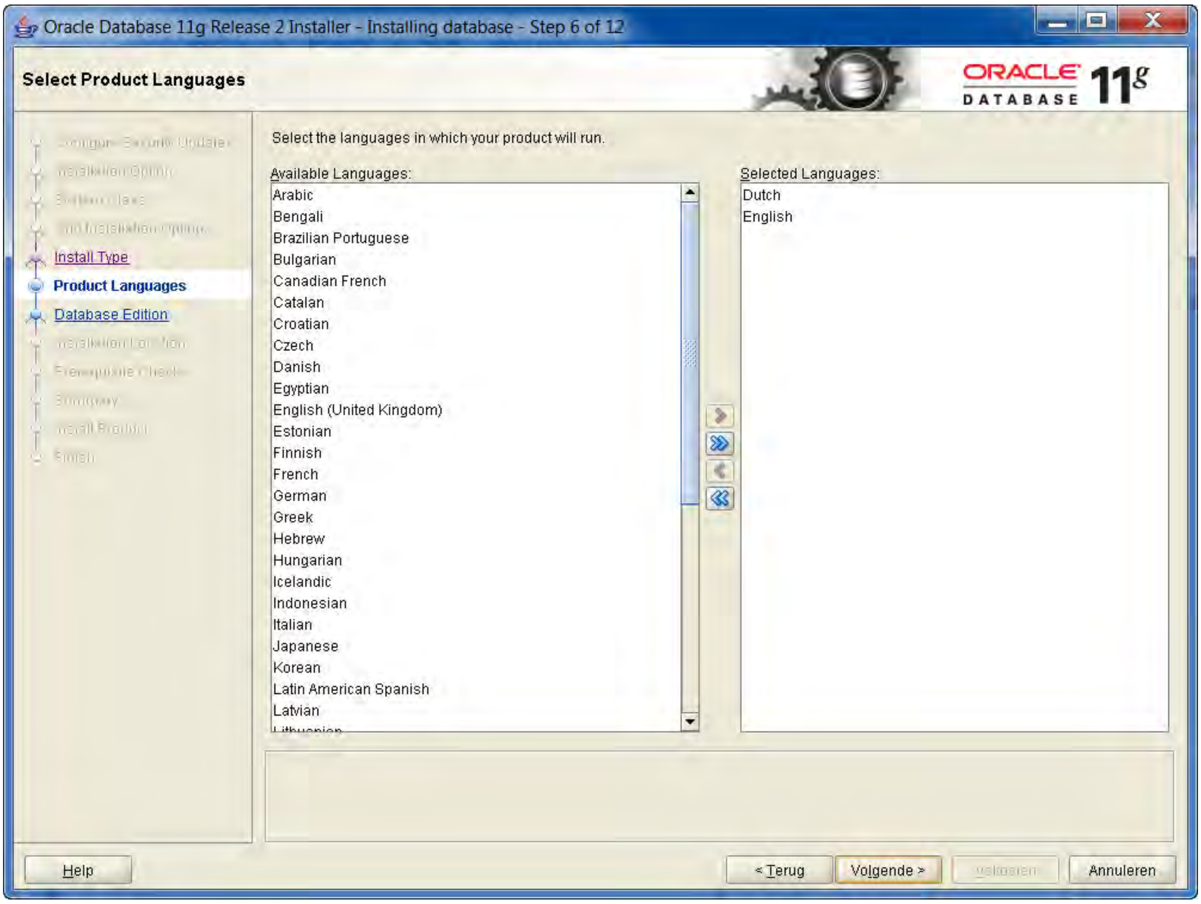
○ Typical install

Perform full Oracle Database installation with basic configuration.

● Advanced install

Allows advanced selections such as different passwords for the SYS, SYSMAN, SYSTEM and DBSNMP accounts, database character set, product languages, automated backups, custom installation, and alternative storage options such as Automatic Storage Management.

- Select ‘Advanced install’ and then select ‘Next’.
- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 6 of 12
ORACLE DATABASE 11g
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Select Product Languages

Select the languages in which your product will run.

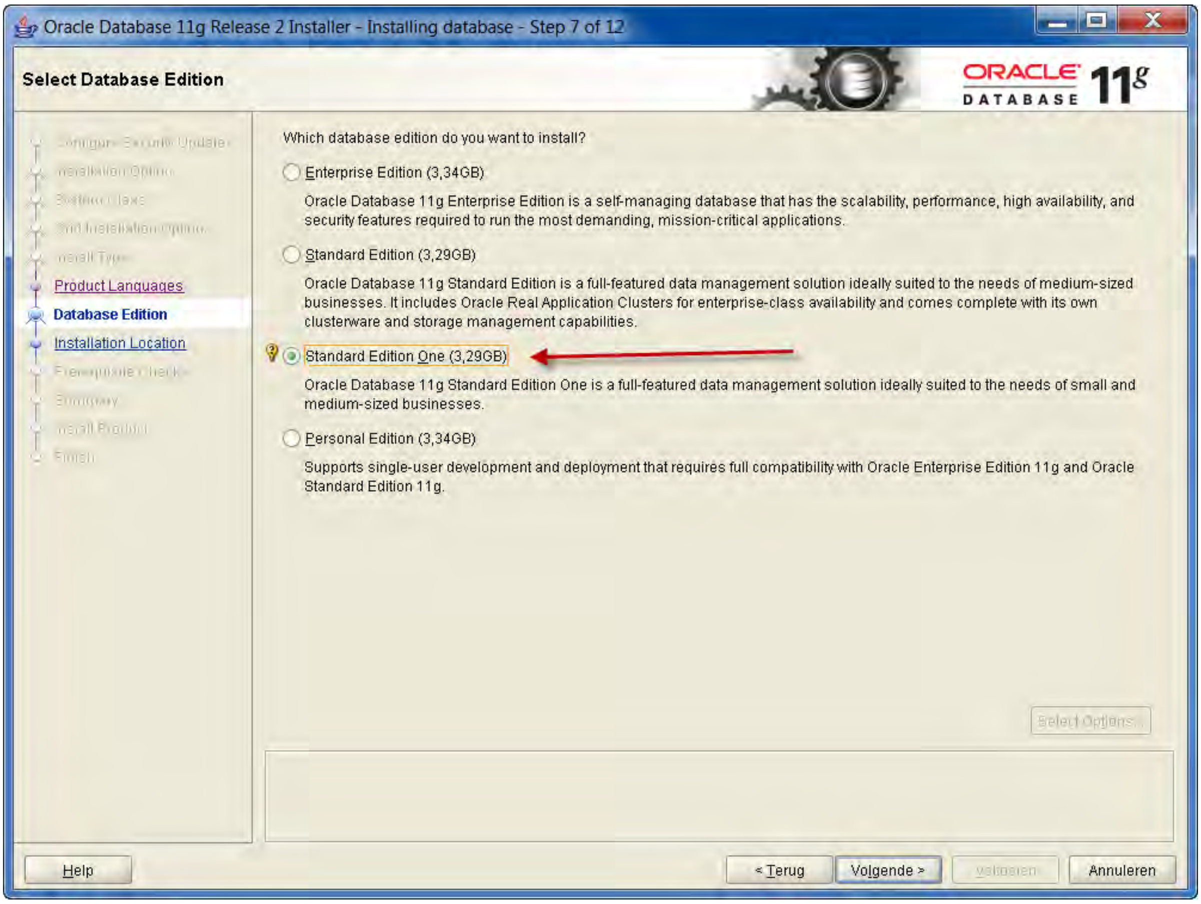
Available Languages:

Arabic
Bengali
Brazilian Portuguese
Bulgarian
Canadian French
Catalan
Croatian
Czech
Danish
Egyptian
English (United Kingdom)
Estonian
Finnish
French
German
Greek
Hebrew
Hungarian
Icelandic
Indonesian
Italian
Japanese
Korean
Latin American Spanish
Latvian
Lithuanian

Selected Languages:

Dutch
English

- Select at least the languages in which the system will be ever used, but preferably choose all languages.
- Select ‘Next’.
- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 7 of 12
ORACLE DATABASE 11g
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Select Database Edition

Which database edition do you want to install?

○ Enterprise Edition (3,34GB)

Oracle Database 11g Enterprise Edition is a self-managing database that has the scalability, performance, high availability, and security features required to run the most demanding, mission-critical applications.

○ Standard Edition (3,29GB)

Oracle Database 11g Standard Edition is a full-featured data management solution ideally suited to the needs of medium-sized businesses. It includes Oracle Real Application Clusters for enterprise-class availability and comes complete with its own clusterware and storage management capabilities.

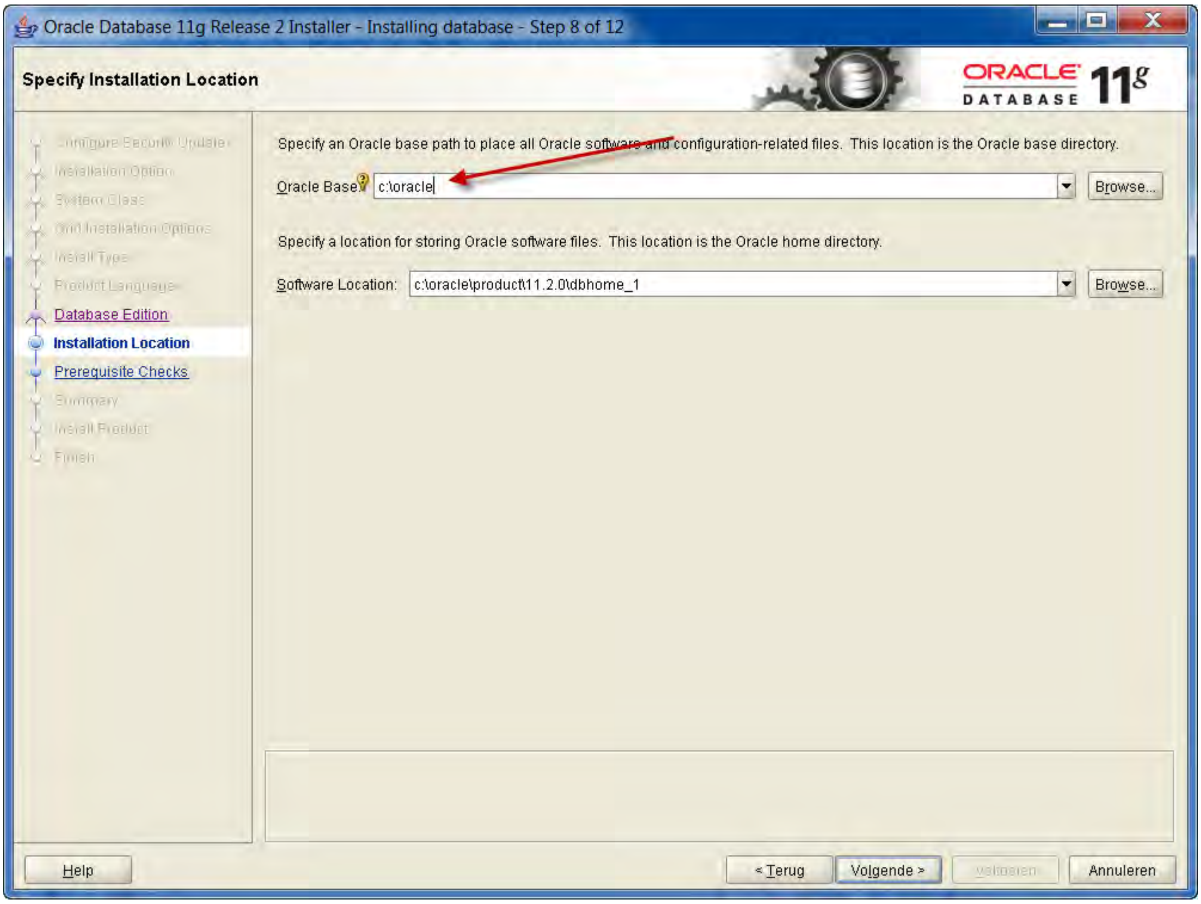
● Standard Edition One (3,29GB)

Oracle Database 11g Standard Edition One is a full-featured data management solution ideally suited to the needs of small and medium-sized businesses.

○ Personal Edition (3,34GB)

Supports single-user development and deployment that requires full compatibility with Oracle Enterprise Edition 11g and Oracle Standard Edition 11g.

- Select ‘Standard Edition One’ when this is licensed. This is also the minimum level necessary for proper operation.
- Select ‘Next’.


Oracle Database 11g Release 2 Installer - Installing database - Step 8 of 12

Specify Installation Location

Specify an Oracle base path to place all Oracle software and configuration-related files. This location is the Oracle base directory.

Oracle Base: c:\oracle

Specify a location for storing Oracle software files. This location is the Oracle home directory.

Software Location: c:\oracle\product\11.2.0\dbhome_1

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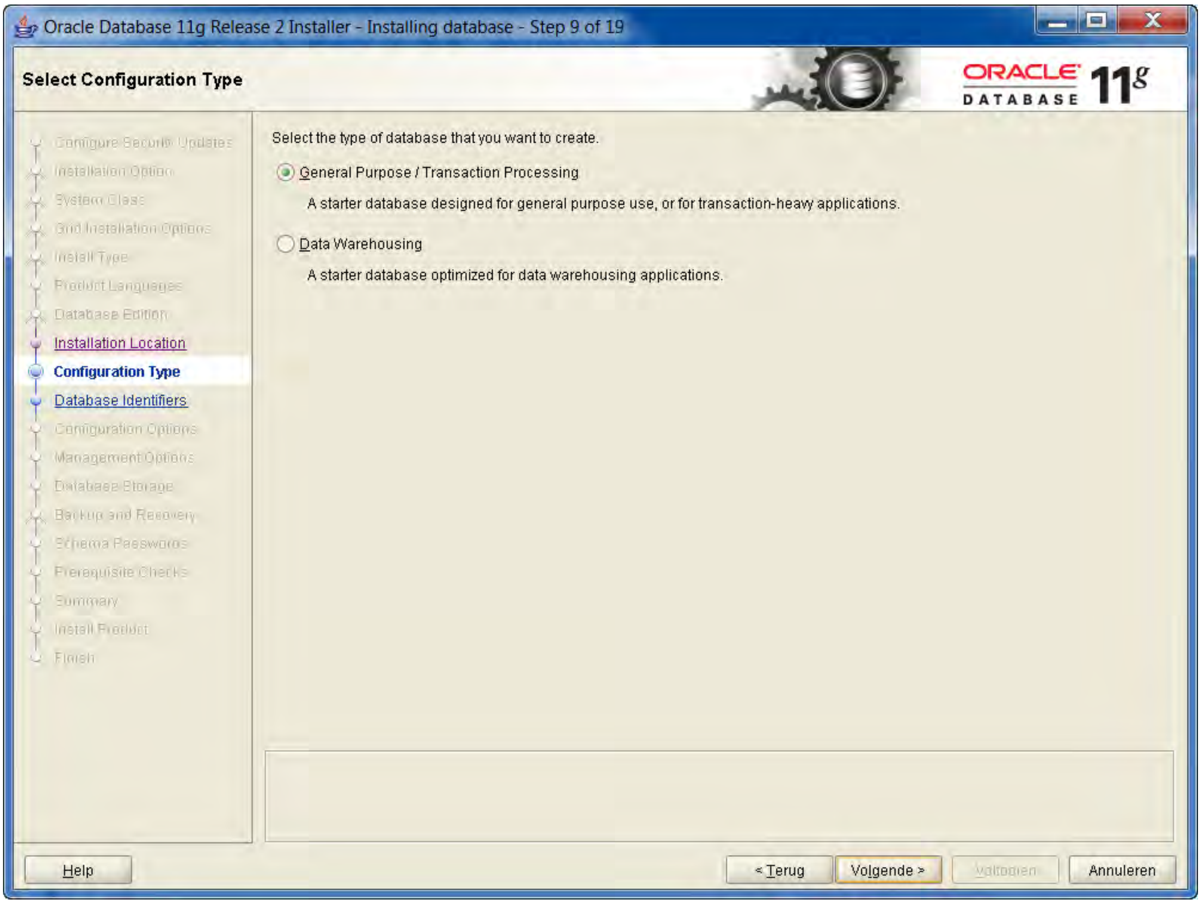
- Fill in at ‘Oracle Base’ the preferred location, most common is ‘<DRIVE>:\oracle’.
- Select ‘Next’.
- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 9 of 19
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Select Configuration Type

Select the type of database that you want to create.

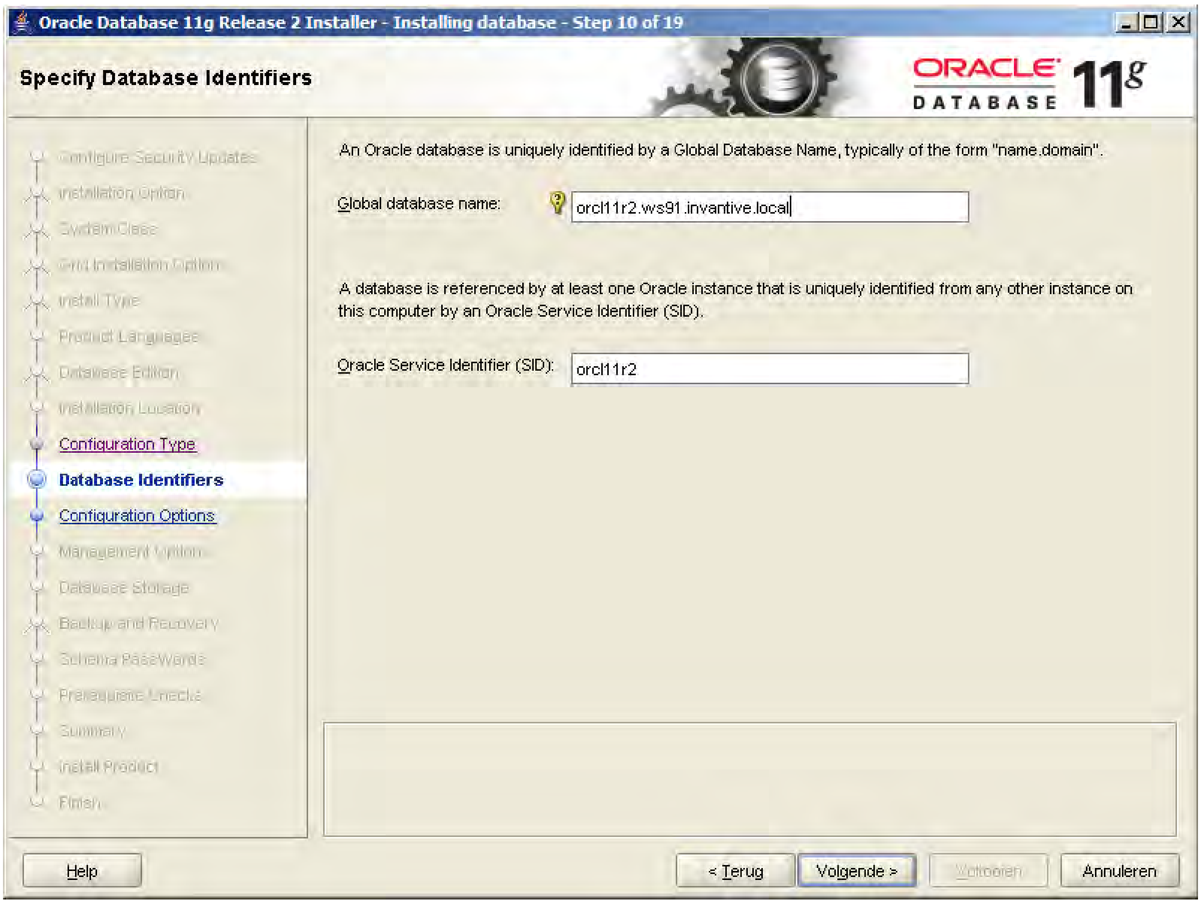
● General Purpose / Transaction Processing

A starter database designed for general purpose use, or for transaction-heavy applications.

○ Data Warehousing

A starter database optimized for data warehousing applications.

- Select 'Next'.
- The following screen appears:



Oracle Database 11g Release 2 Installer - Installing database - Step 10 of 19

Specify Database Identifiers

An Oracle database is uniquely identified by a Global Database Name, typically of the form "name.domain".

Global database name: orcl11r2.ws91.invantive.local

A database is referenced by at least one Oracle instance that is uniquely identified from any other instance on this computer by an Oracle Service Identifier (SID).

Oracle Service Identifier (SID): orcl11r2

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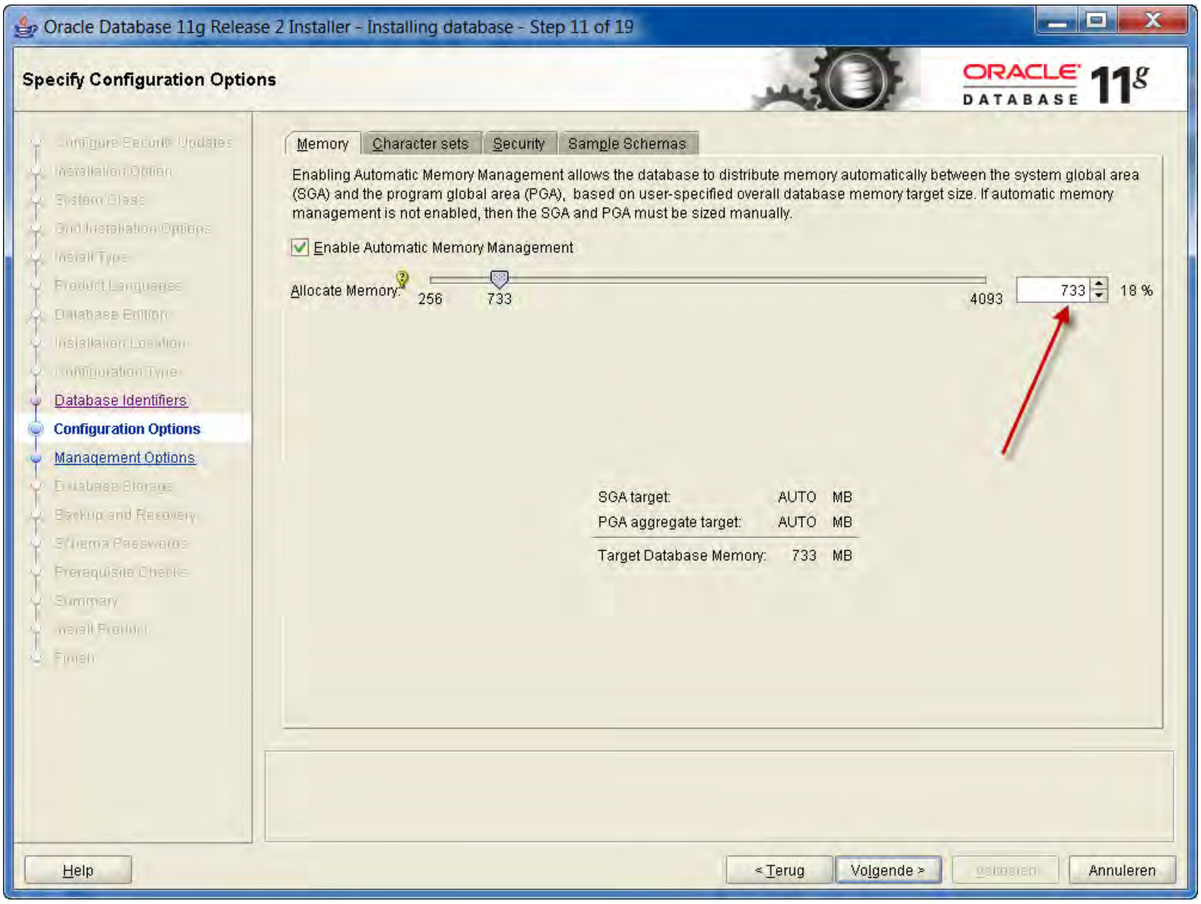
- Enter the Global database name ‘orcl11r2.<MACHINENAAM>.<DOMEIN BEDRIJF>’, for example, ‘orcl11r2.ws48.invantive.com’.
- Select ‘Next’.
- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 11 of 19
Specify Configuration Options
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Character sets
Security
Sample Schemas
256
4093
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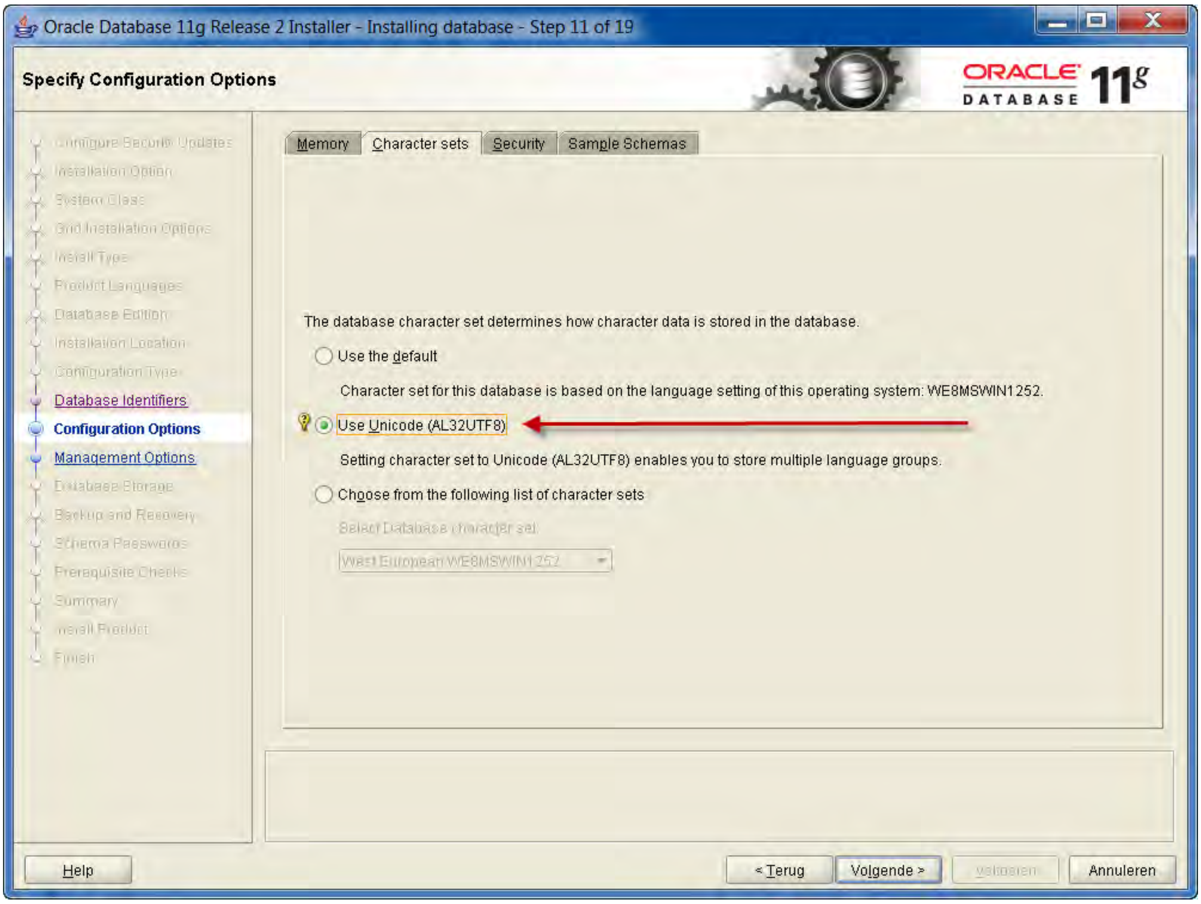
Enabling Automatic Memory Management allows the database to distribute memory automatically between the system global area (SGA) and the program global area (PGA), based on user-specified overall database memory target size. If automatic memory management is not enabled, then the SGA and PGA must be sized manually.

☑ Enable Automatic Memory Management

Allocate Memory: 733 18 %

SGA target: AUTO MB
PGA aggregate target: AUTO MB
Target Database Memory: 733 MB

- Set the maximum memory use after consultation with the system administrator and the requirements based on the number of users.
- Select the tab ‘Character sets’ and select ‘AL32UTF8’ as standard character set:


Oracle Database 11g Release 2 Installer - Installing database - Step 11 of 19
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The database character set determines how character data is stored in the database.

○ Use the default

Character set for this database is based on the language setting of this operating system: WE8MSWIN1252.

● Use Unicode (AL32UTF8)

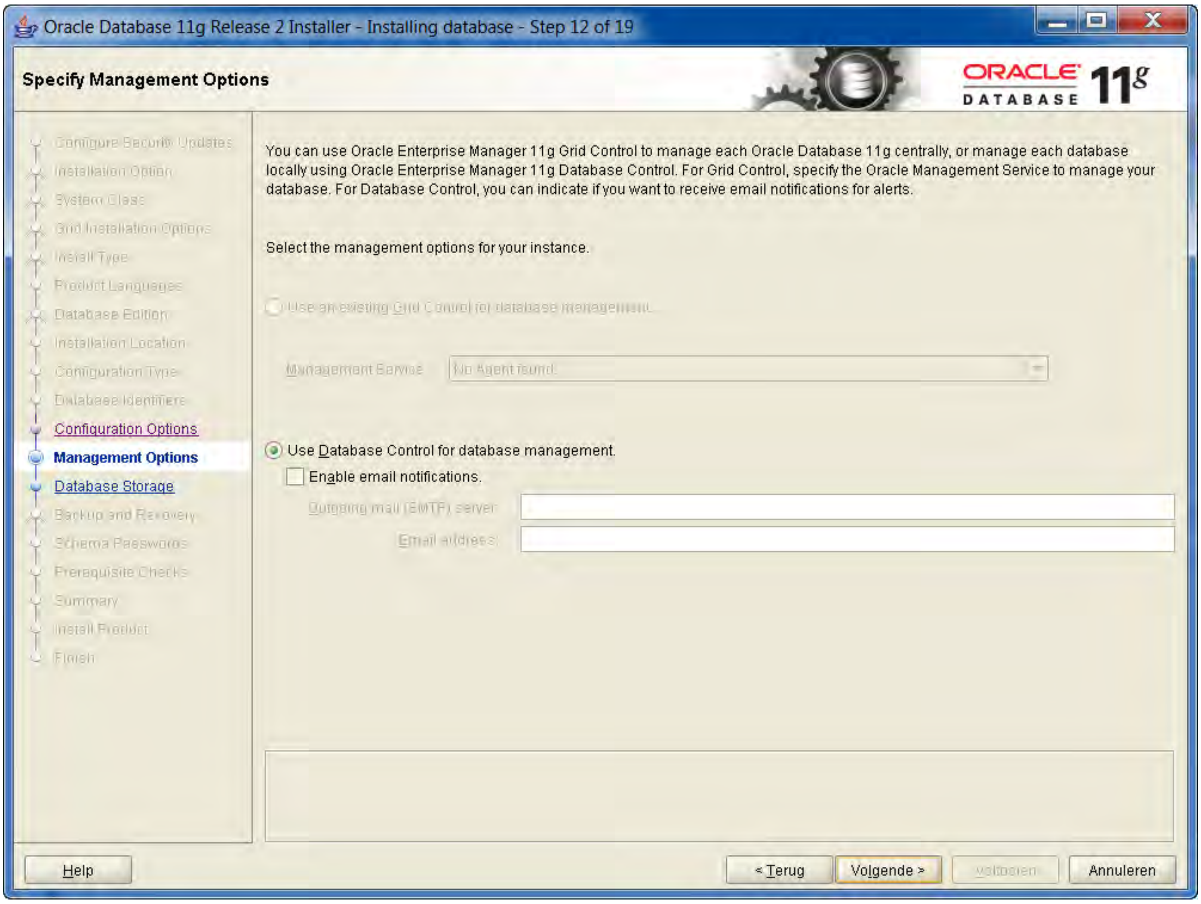
Setting character set to Unicode (AL32UTF8) enables you to store multiple language groups.

○ Choose from the following list of character sets

Select Database character set:

West European WE8MSWIN1252

- Select ‘Next’.
- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 12 of 19
Specify Management Options
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You can use Oracle Enterprise Manager 11g Grid Control to manage each Oracle Database 11g centrally, or manage each database locally using Oracle Enterprise Manager 11g Database Control. For Grid Control, specify the Oracle Management Service to manage your database. For Database Control, you can indicate if you want to receive email notifications for alerts.

Select the management options for your instance.

○ Use an existing Grid Control for database management.

Management Service: No Agent found.

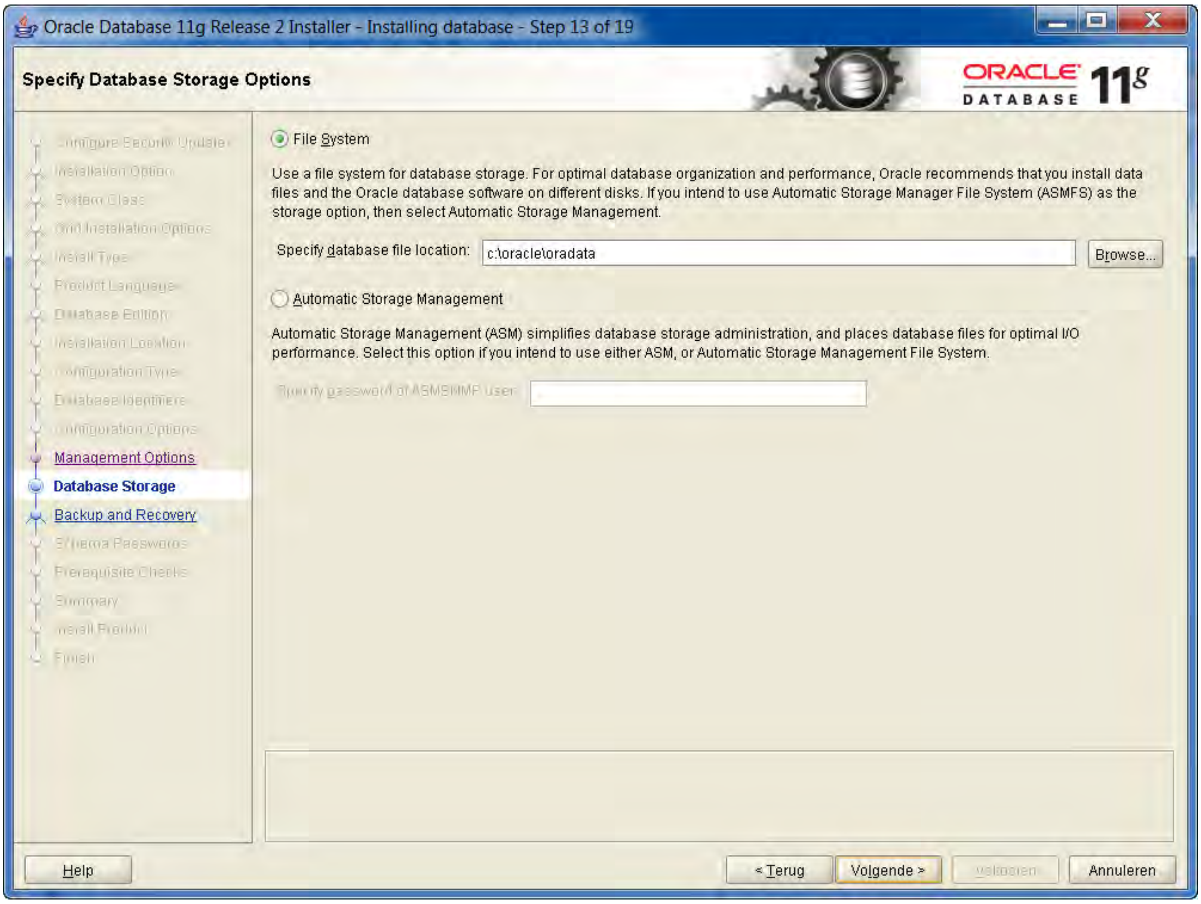
● Use Database Control for database management.

☐ Enable email notifications.

Outgoing mail (SMTP) server:

Email address:

- Select ‘Next’.
- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 13 of 19
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● File System

Use a file system for database storage. For optimal database organization and performance, Oracle recommends that you install data files and the Oracle database software on different disks. If you intend to use Automatic Storage Manager File System (ASMFS) as the storage option, then select Automatic Storage Management.

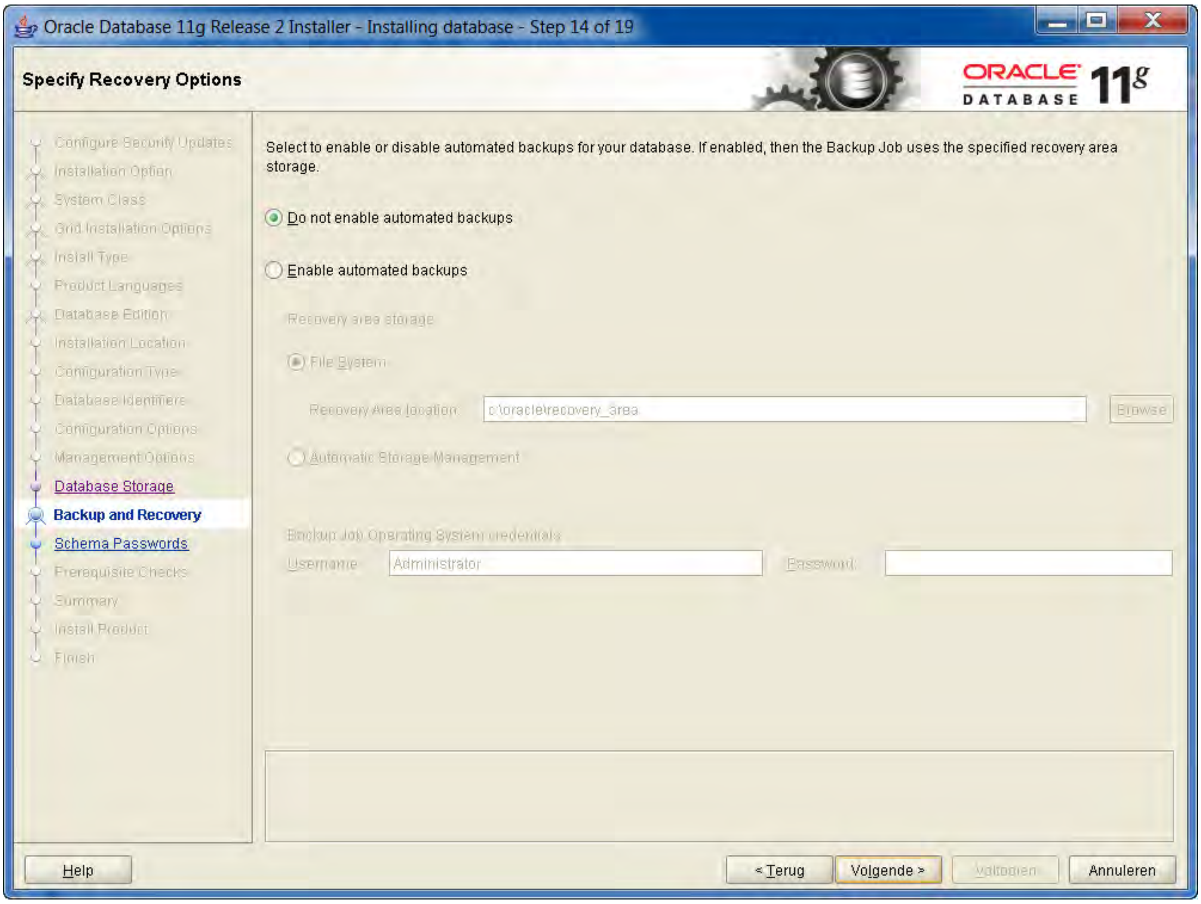
Specify database file location: c:\oracle\oradata

○ Automatic Storage Management

Automatic Storage Management (ASM) simplifies database storage administration, and places database files for optimal I/O performance. Select this option if you intend to use either ASM, or Automatic Storage Management File System.

Specify password of ASMSNMP user:

- Select 'Next'.
- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 14 of 19
ORACLE DATABASE 11g
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Specify Recovery Options

Select to enable or disable automated backups for your database. If enabled, then the Backup Job uses the specified recovery area storage.

● Do not enable automated backups

○ Enable automated backups

Recovery area storage

● File System

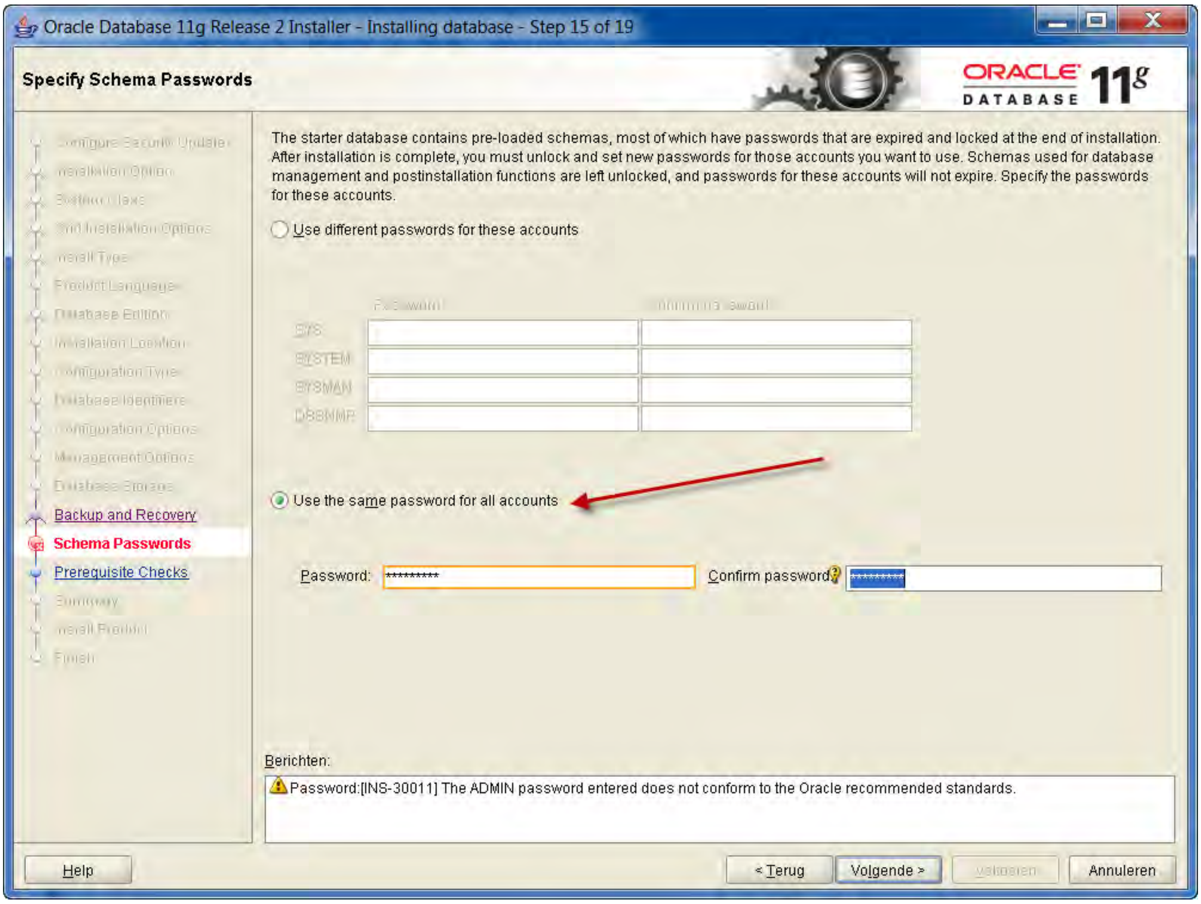
Recovery Area location: c:\oracle\recovery_area

○ Automatic Storage Management

Backup Job Operating System credentials

Username: Administrator Password:

- Select ‘Next’.
- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 15 of 19
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Password
Confirm Password
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SYSTEM
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Specify Schema Passwords

The starter database contains pre-loaded schemas, most of which have passwords that are expired and locked at the end of installation. After installation is complete, you must unlock and set new passwords for those accounts you want to use. Schemas used for database management and postinstallation functions are left unlocked, and passwords for these accounts will not expire. Specify the passwords for these accounts.

○ Use different passwords for these accounts

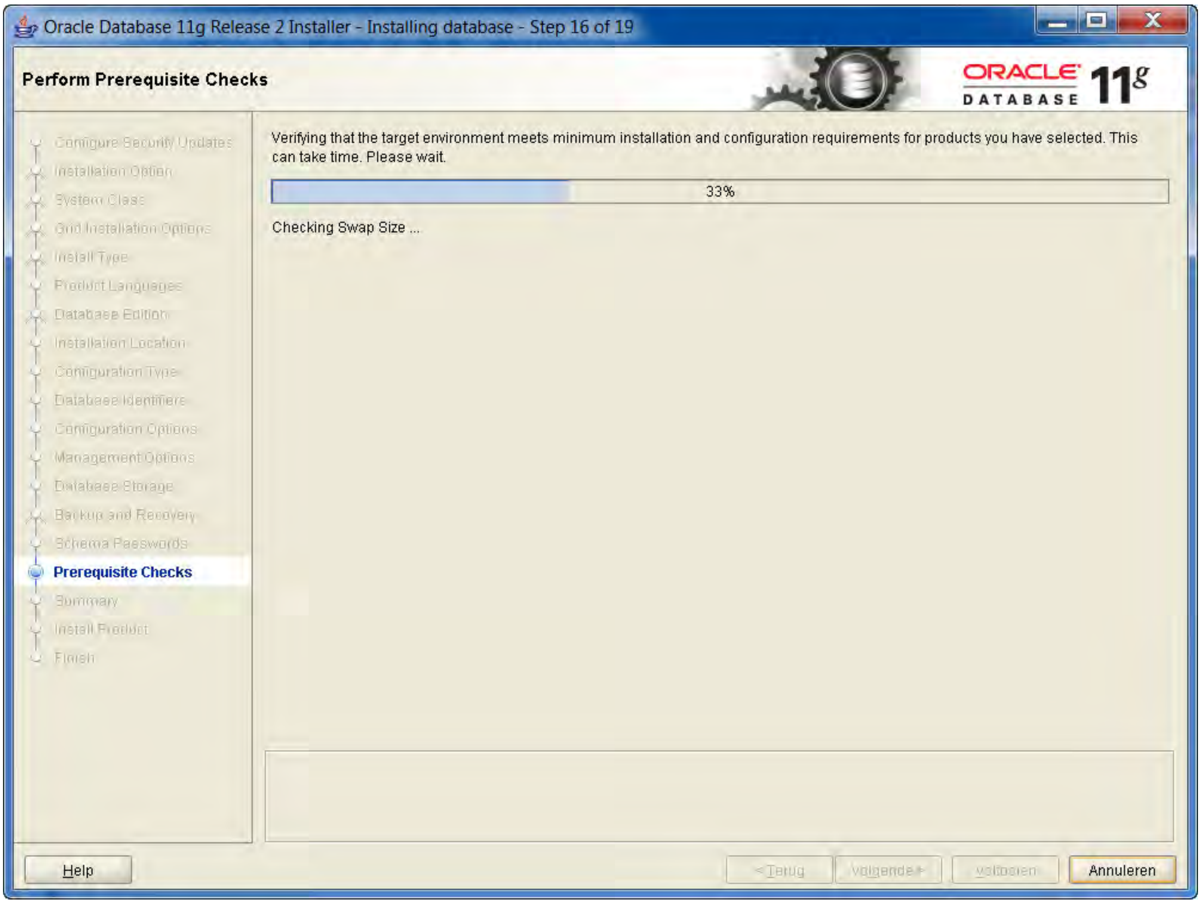
● Use the same password for all accounts

Password: ********** Confirm password: **********

Berichten:

⚠ Password:[INS-30011] The ADMIN password entered does not conform to the Oracle recommended standards.

- Enter the preferred password.
- Select ‘Next’.
- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 16 of 19
Perform Prerequisite Checks
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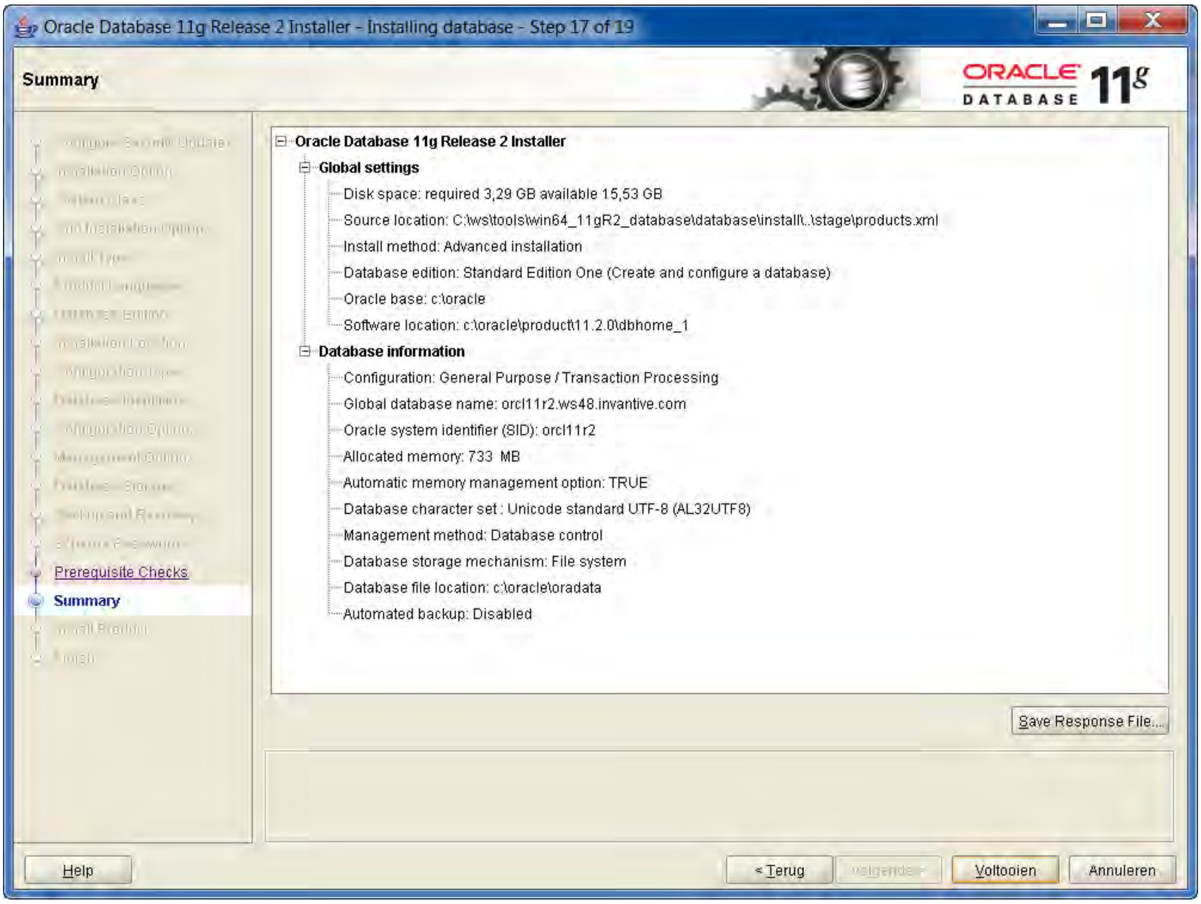
Verifying that the target environment meets minimum installation and configuration requirements for products you have selected. This can take time. Please wait.

Checking Swap Size ...

- Check the results and select ‘Next’ if there are no problems.
- The following screen appears:


Oracle Database 11g Release 2 Installer - Installing database - Step 17 of 19
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Prerequisite Checks
Summary
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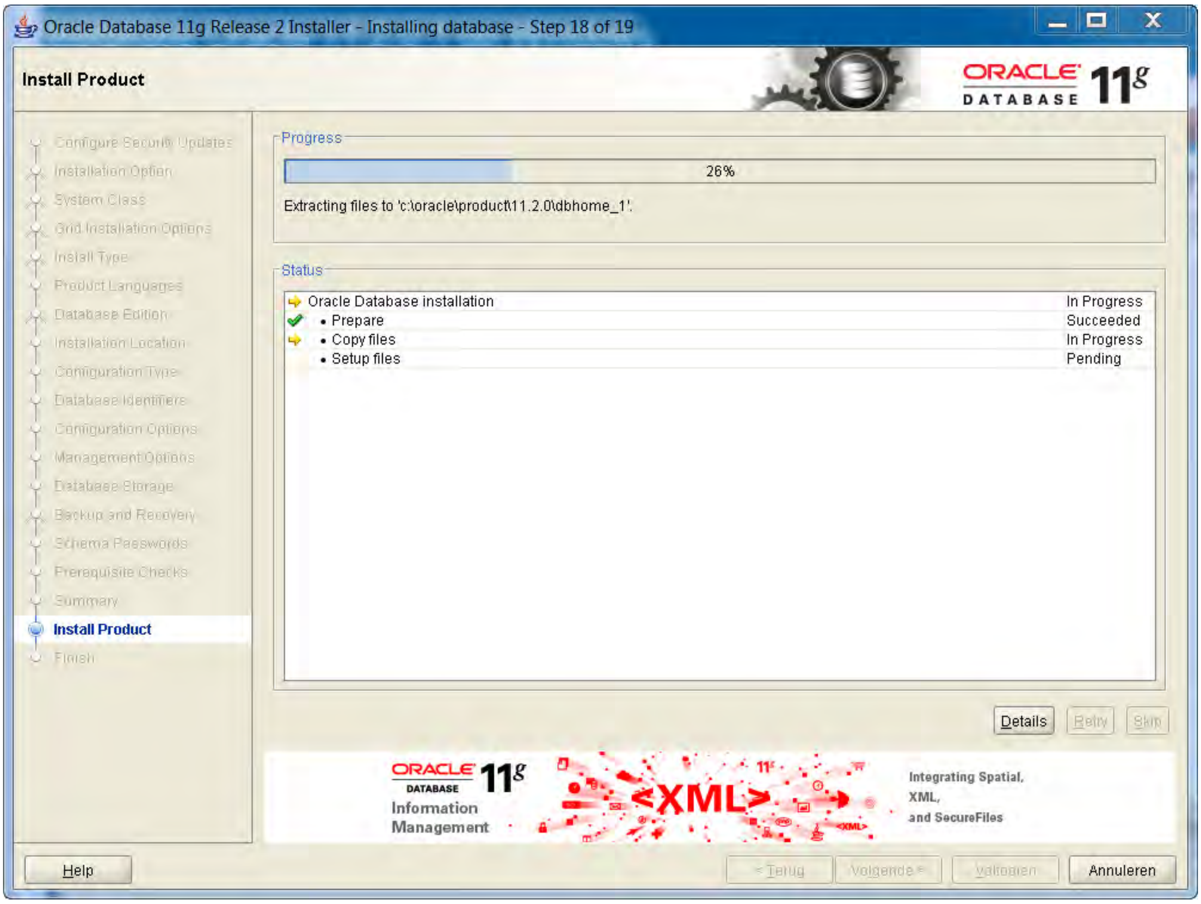
Oracle Database 11g Release 2 Installer

- Global settings
  - Disk space: required 3,29 GB available 15,53 GB
  - Source location: C:\ws\tools\win64_11gR2_database\database\install\..\stage\products.xml
  - Install method: Advanced installation
  - Database edition: Standard Edition One (Create and configure a database)
  - Oracle base: c:\oracle
  - Software location: c:\oracle\product\11.2.0\dbhome_1
- Database information
  - Configuration: General Purpose / Transaction Processing
  - Global database name: orcl11r2.ws48.invantive.com
  - Oracle system identifier (SID): orcl11r2
  - Allocated memory: 733 MB
  - Automatic memory management option: TRUE
  - Database character set : Unicode standard UTF-8 (AL32UTF8)
  - Management method: Database control
  - Database storage mechanism: File system
  - Database file location: c:\oracle\oradata
  - Automated backup: Disabled

- Check the settings and press ‘Finish’.
- The following screen appears while the installation is being performed:


Oracle Database 11g Release 2 Installer - Installing database - Step 18 of 19
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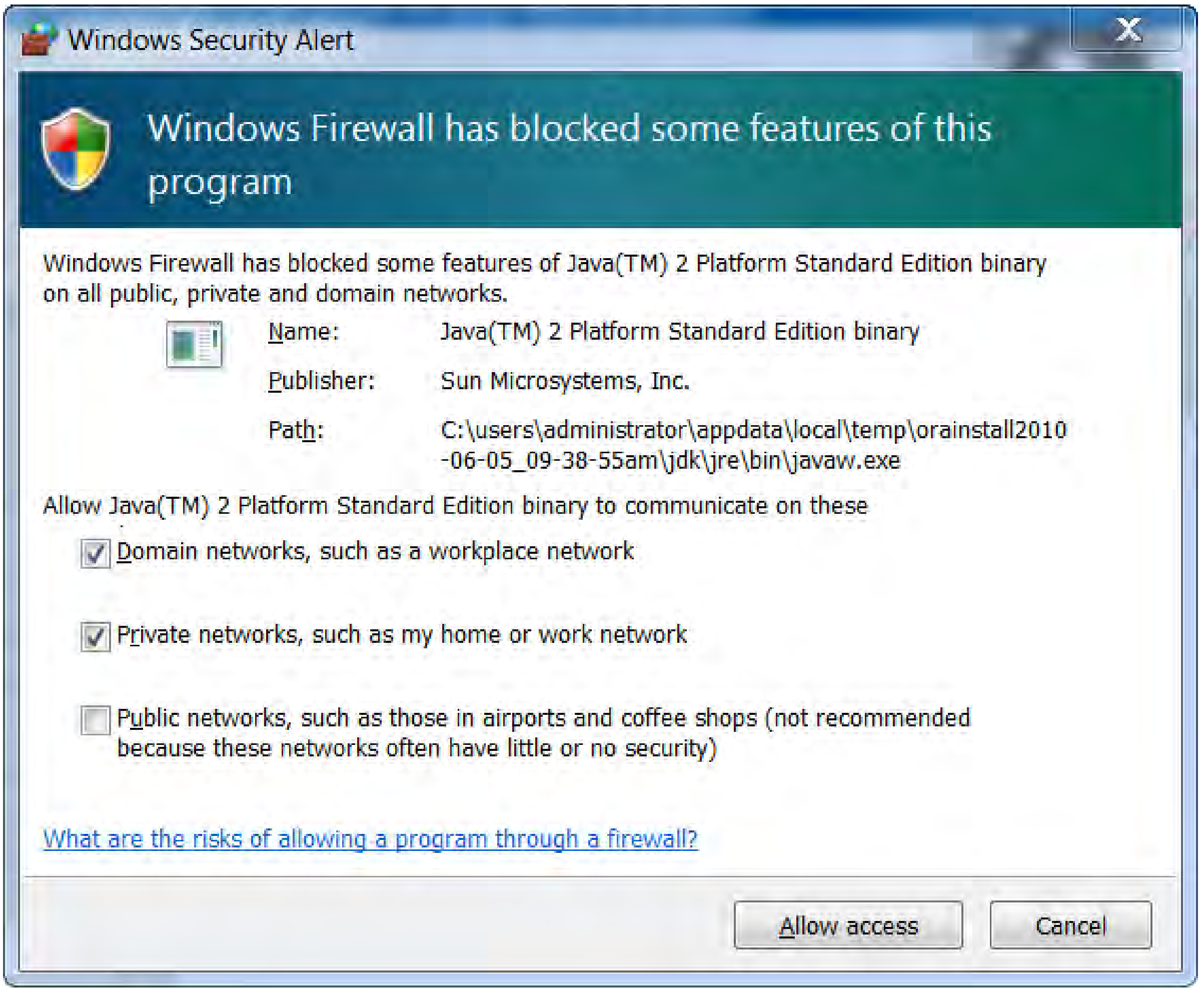
26%

Extracting files to 'c:\oracle\product\11.2.0\dbhome_1'.

Oracle Database installation	In Progress
• Prepare	Succeeded
• Copy files	In Progress
• Setup files	Pending

- This takes depending on the circumstances up to 30 minutes.
- On some platforms, a warning from Windows Firewall will appear when parts of Oracle will be started. Accept these in consultation with the system administrator.



Windows Security Alert

Windows Firewall has blocked some features of this program

Windows Firewall has blocked some features of Java(TM) 2 Platform Standard Edition binary on all public, private and domain networks.

Name: Java(TM) 2 Platform Standard Edition binary

Publisher: Sun Microsystems, Inc.

Path: C:\users\administrator\appdata\local\temp\orainstall2010-06-05_09-38-55am\jdk\jre\bin\javaw.exe

Allow Java(TM) 2 Platform Standard Edition binary to communicate on these networks:

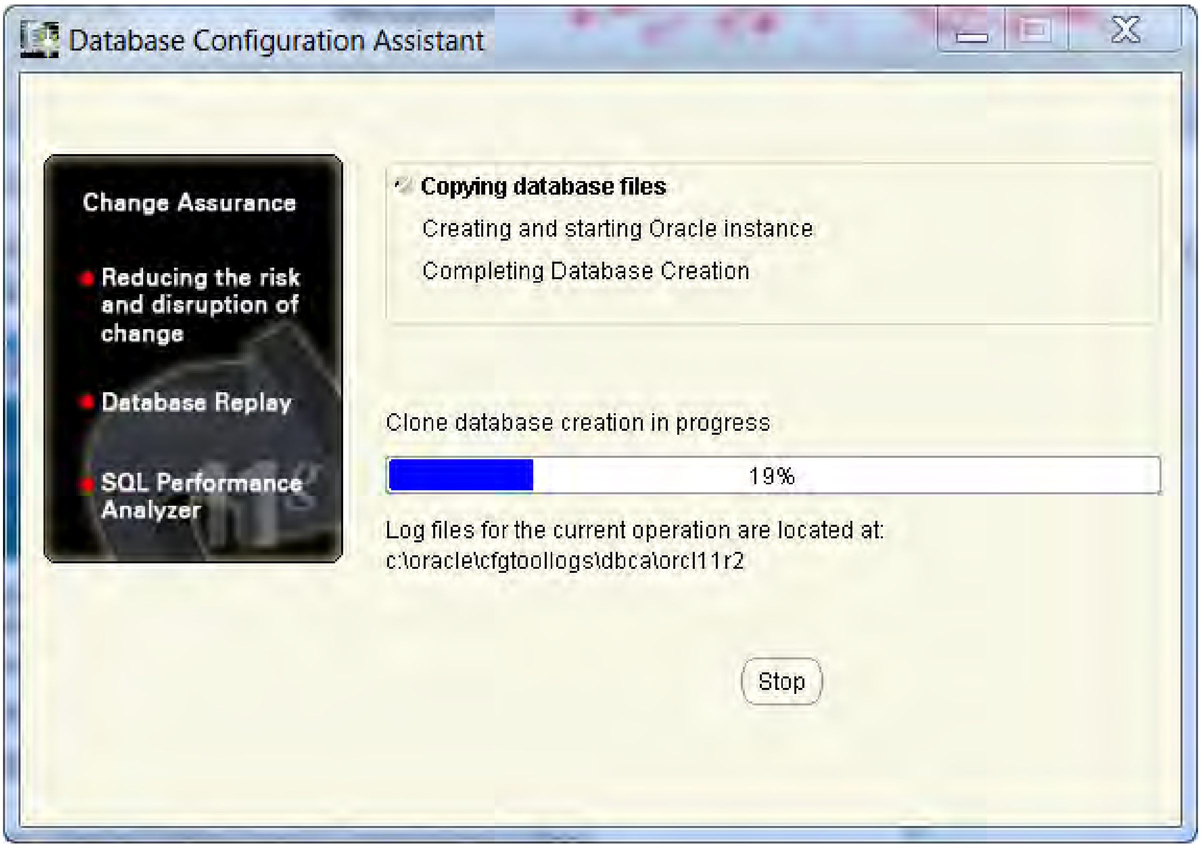
☑ Domain networks, such as a workplace network

☑ Private networks, such as my home or work network

☐ Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)

What are the risks of allowing a program through a firewall?
Allow access
Cancel

- The following screen appears when the database is being created:


Database Configuration Assistant
Change Assurance
Reducing the risk and disruption of change
Database Replay
SQL Performance Analyzer
Stop

Copying database files

Creating and starting Oracle instance

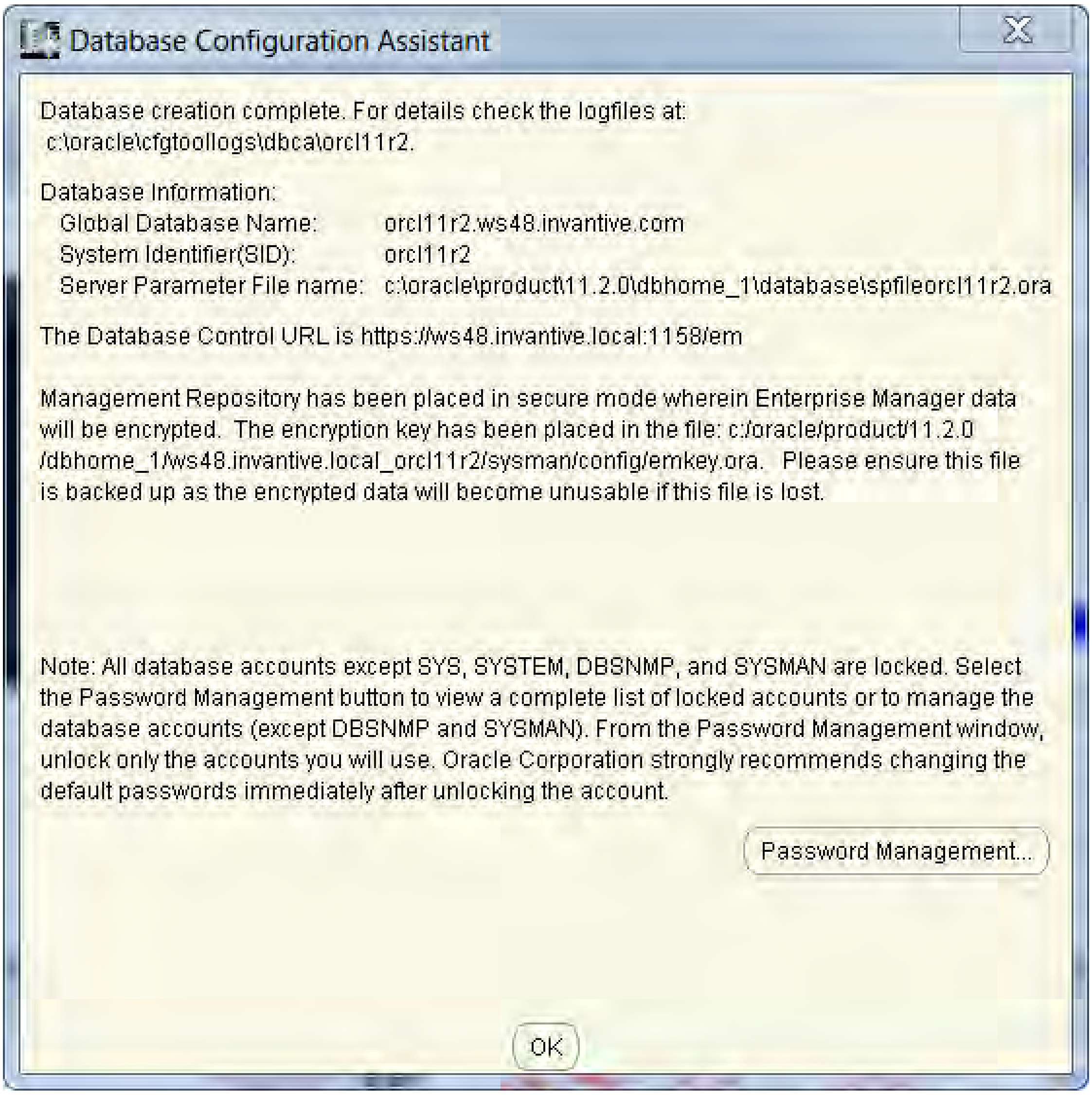
Completing Database Creation

Clone database creation in progress

19%

Log files for the current operation are located at:
c:\oracle\cfgtoollogs\dbca\orcl11r2

- At the end the following screen appears:



Database creation complete. For details check the logfiles at:
c:\oracle\cfgtoollogs\dbca\orcl11r2.

Database Information:

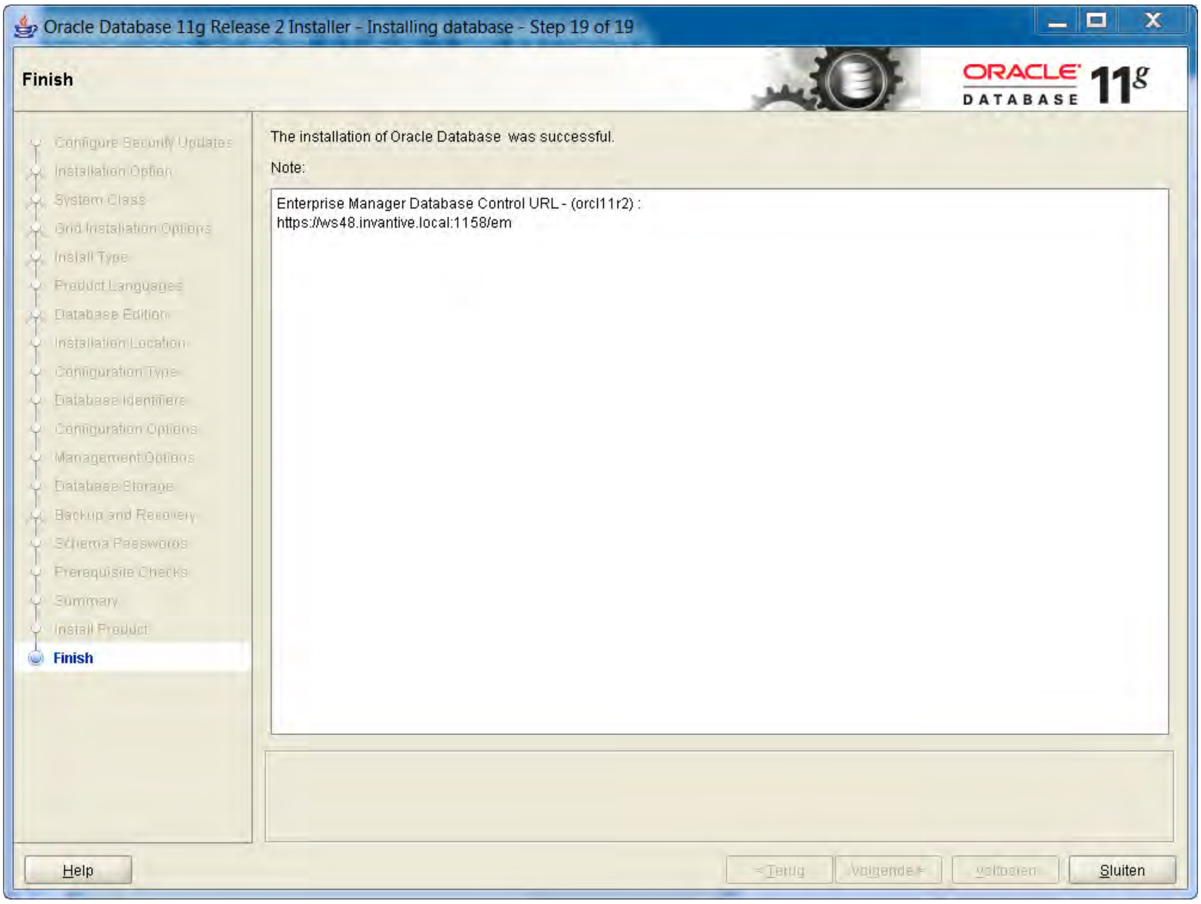
Global Database Name:	orcl11r2.ws48.invantive.com
System Identifier(SID):	orcl11r2
Server Parameter File name:	c:\oracle\product\11.2.0\dbhome_1\database\spfileorcl11r2.ora

The Database Control URL is https://ws48.invantive.local:1158/em

Management Repository has been placed in secure mode wherein Enterprise Manager data will be encrypted. The encryption key has been placed in the file: c:/oracle/product/11.2.0/dbhome_1/ws48.invantive.local_orcl11r2/sysman/config/emkey.ora. Please ensure this file is backed up as the encrypted data will become unusable if this file is lost.

Note: All database accounts except SYS, SYSTEM, DBSNMP, and SYSMAN are locked. Select the Password Management button to view a complete list of locked accounts or to manage the database accounts (except DBSNMP and SYSMAN). From the Password Management window, unlock only the accounts you will use. Oracle Corporation strongly recommends changing the default passwords immediately after unlocking the account.

- And finally the screen:


Oracle Database 11g Release 2 Installer - Installing database - Step 19 of 19
Finish
ORACLE DATABASE 11g
Configure Security Updates
Installation Option
System Class
Grid Installation Options
Install Type
Product Languages
Database Edition
Installation Location
Configuration Type
Database Identifiers
Configuration Options
Management Options
Database Storage
Backup and Recovery
Schema Passwords
Prerequisite Checks
Summary
Install Product
Finish
Help
< Terug
Volgende >
Voltooien
Sluiten

The installation of Oracle Database was successful.

Note:

Enterprise Manager Database Control URL - (orcl11r2) :
https://ws48.invantive.local:1158/em

- The installation is completed after choosing 'Close'.
- Delete the line 'SQLNET.AUTHENTICATION_SERVICES= (NTS)' uit ORACLE_HOME \network\admin\sqlnet.ora.
- Afterwards install the Oracle patch 14095819 (32-bit Windows) or Oracle patch 14095820 (64-bit Windows). This is patch 7 on 11.2.0.3. Inside is a patch for Oracle bug 12794090 which ensures that you can also read a dump with impdp which is made with expdp during an Unicode Installation of an Oracle database (AL32UTF8 draw collection).

1.10.2.2 Installation Tomcat Web Server

Perform the next steps in case of installation or upgrade of the application server:

Required Parts

- [All] Ensure that JDK 6.0 Update 6 or later installed, preferably in the same number of bits (32 or 64) what the platform can support a maximum of.
- [All] Ensure that the environment variable JAVA_HOME points to JDK, for example, 'I:\Program Files\Java\jdk1.6.0_21'. See SVN://tools/Java.
- [All] Ensure that Tomcat 7.0.19 or later is installed within the 7.0 version of Tomcat. See SVN://tools/Apache Tomcat.
- [All] Ensure that the environment variable CATALINA_HOME points to the installation directory of Tomcat, for example, 'I:\Program Files\Apache Software Foundation\Tomcat 7.0'.

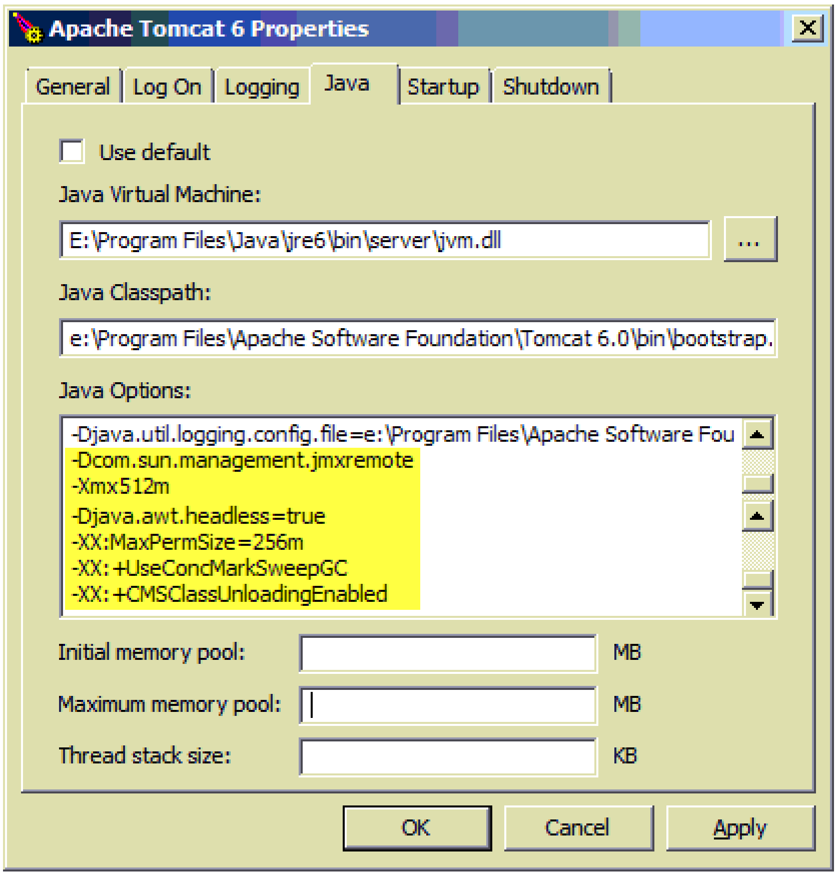
- [All] Install Psi Probe in the map webapps of CATALINA_HOME from http://psi-probe.googlecode.com/files/probe-2.2.3.zip or try a newer version. See SVN://tools/PsiProbe.
- [UNIX/Linux] Edit catalina.sh and add the next lines to the beginning:

```
umask 007
NLS_LANG="DUTCH_THE NETHERLANDS.AL32UTF8"
export NLS_LANG
```

- [UNIX/Linux] Edit /etc/init.d/oracle or equivalent and add the next lines to the beginning:

```
umask 007
NLS_LANG="DUTCH_THE NETHERLANDS.AL32UTF8"
export NLS_LANG
```

- [Windows] Makes sure that AL32UTF8 is used by putting NLS_LANG on "DUTCH_THE NETHERLANDS.AL32UTF8" in the register.
- [All] Add for memory measurement with Psi Probe '-Dcom.sun.management.jmxremote' to the Java options of Tomcat (Configure in the context menu in the process bar, tab Java, field Java Options).
- [All] Assign at least 25 MB of memory per concurrent user, with a minimum of 512 MB and make sure that the PermGen will be released again at restart of an application by adding the next yellow shaded items:



☐ Use default

Java Virtual Machine: E:\Program Files\Java\jre6\bin\server\jvm.dll

Java Classpath: e:\Program Files\Apache Software Foundation\Tomcat 6.0\bin\bootstrap.

Java Options:

```
-Djava.util.logging.config.file=e:\Program Files\Apache Software Fou
-Dcom.sun.management.jmxremote
-Xmx512m
-Djava.awt.headless=true
-XX:MaxPermSize=256m
-XX:+UseConcMarkSweepGC
-XX:+CMSClassUnloadingEnabled
```

Initial memory pool: MB

Maximum memory pool: MB

Thread stack size: KB

- [All] The total list extra-Java-opties will be:

```
-Dcom.sun.management.jmxremote
-Xmx512m
-Djava.awt.headless=true
-XX:MaxPermSize=256m
-XX:+UseConcMarkSweepGC
-XX:+CMSClassUnloadingEnabled
```

- [UNIX / Linux] Only if you will run Tomcat in the root: change the port in the configuration file server.xml of Tomcat from 8080 to 80
- Put the parameter 'reloadable' on 'false' in production environments to turn of automatic

controls on changing programs. You can restart the application with Psi Probe.

Installation Certificate

Perform the following steps to install a pfx certificate:

- If the certificate is not in pfx format:
- Follow the steps for installing a certificate in a Microsoft IIS server as described in Installation Microsoft IIS Tunneling Webservice 608.
- Export the certificate in pfx format.
- Open server.xml in %TOMCAT_HOME%\conf.
- Remove comments start '<!--' and commens end '-->' around the SSL connector.
- Add the keystore with as end result:

```
     <Connector port="443" protocol="HTTP/1.1" SSLEnabled="true"
                maxThreads="150" scheme="https" secure="true"
                keystoreFile="i:\program files\apache software
 foundation\tomcat 6.0\conf\KLANT.pfx"
                keystorePass="password"
                keystoreType="PKCS12"
                clientAuth="false" sslProtocol="TLS" />
```

- Restart Tomcat.
- Modify the URL-s in the site.CUSTOMER.ENVIRONMENT.properties to the https: site:
- Adjust the screen settings 336 the field 'Prefix Server (URL)' to the example 'https://...'.
- Adjust the screen Settings 336 the field 'Main Menu (URL)' to an example 'https://.../bubs_main_pjt.do'.

Folder Structure

[All] Create for the environment an environment map ENVIRONMENTDIR (for example ‘d:\invantive\ENVIRONMENT’ of ‘/opt/invantive/ENVIRONMENT’).

Installation Frontend

- ‘backup’ (for backups).
- ‘distribute’ (for Outlook Add-in distribution).
- ‘documents’ (for documents).
- ‘etl’ (for ETL-programs).
- ‘local’ (for local images and style sheets).
- ‘log’ (for logging).
- ‘recycle bin’ (for deleted documents).
- ‘swap’ (for temporary files for large reports).
- ‘tmp’ (for temporary files during uploads).
- ‘transfer’ (for data exchange).
- ‘transfer/bubs/in’ (for input files for example for connections).
- ‘transfer/bubs/in/processed’.
- ‘transfer/bubs/in/rejected’.
- ‘transfer/bubs/out’ (or output files for example for connections).
- ‘transfer/bubs/out/processed’.
- ‘transfer/bubs/out/rejected’.

- for folders that are approached by other applications: make ‘transfer/CODE/in’ and ‘transfer/CODE/out’.
- ‘web’ (for the Apache Tomcat web application).
- ‘webservice’ (for Microsoft IIS web service application).
- ‘work’ (for work files of shell scripts).

Installation Frontend

- [UNIX/Linux] Execute the next statement to set the permissions correctly:

```
find ENVIRONMENTDIR -type d -print | xargs chmod -R g+s # Force
sticky bit on group.
chmod -R ug+rw ENVIRONMENTDIR
chown -R tomcat:dba ENVIRONMENTDIR # TOMCATRUNNER:ORACLE GROUP
chmod -R o-rwx ENVIRONMENTDIR
```

- [All] Add a Context for Invantive Estate in the file CATALINA_HOME\conf\server.xml from Apache Tomcat, like:

```
<!-- Local customizations under SITE/local. -->
<Context path="/abubs/local" docBase="ENVIRONMENTDIR\local" re-
loadable="true" />

<!-- Optional! Allow access to the documents when coming from
the server itself. This is necessary to allow JasperReports to
get access to the documents, without first logging on to the
application middle-tier.
<Context path="/tbubs/documents" docBase="ENVIRONMENTDIR\tbubs
\doc" reloadable="true" >
  <Valve className="org.apache.catalina.valves.AccessLogValve"
prefix="ENVIRONMENTDIR/log/tbubs-documents-access." suf-
fix=".log"/>
  <Logger className="org.apache.catalina.logger.FileLogger"
prefix="ENVIRONMENTDIR/log/tbubs-documents." suffix=".log" ti-
mestamp="true"/>
  <Valve className="org.apache.catalina.valves.RemoteHostValve"
allow="192\.168\.172\.xxx|192\.1681\.172\.yyy|127\.0\.0\.1"/>
</Context>
 -->

<!-- Core of the application. -->
<Context path="/tbubs" docBase="ENVIRONMENTDIR\web" reloada-
ble="true" />
```

- [All] The data volume exchanged via the network can be strongly reduced by enabling compression at the expense of the processor capacity. It is strongly recommended when users outside the local network also use the application. Expand the Connector Settings in server.xml as follows:

```
 <Connector port="PORT" ... and then the 4 four lines with com-
pression.
    compression="on"
```

```
      compressionMinSize="32"
      noCompressionUserAgents="gozilla, traviata"
      compressableMimeType="text/html,text/xml,text/javascript,ap-
plication/x-javascript,text/css"
   />
```

- [All] Copy the content of frontend\runtime to the map ENVIRONMENTDIR.
- [All] Create a site.KLANT.OMGEVING.properties file in ENVIRONMENTDIR/web/WEB-INF/ .
- [Alle] Adjust the 'logfile' option in the file ‘site.KLANT.OMGEVING.properties’ in WEB-INF so it points to theENVIRONMENTDIR/log.
- [Alle] Adjust the parameter configuration.file in ENVIRONMENTDIR/web/WEB-INF/web.xml so it points to the site.KLANT.OMGEVING.properties bestand.

Give Rigths for Windows Service

To enable a user with limited rights to restart the Tomcat7 service, you need to add his data to the command 'sc'.

First ask for the current rights in the command with:

```
sc sdshow tomcat7
```

For example:

```
D:(A;;CCLCSWRPWPDTLOCRRC;;;SY)
(A;;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;BA)(A;;CCLCSWLOCRRC;;;AU)
(A;;CCLCSWRPWPDTLOCRRC;;;PU)
```

Then search the registry with HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\ProfileList\S-... for the SID-s of the users. Then grant the RP, WP and DT rights by expanding the outcome of the sd show with SID-s, for example:

```
sc sdset tomcat7 D:(A;;CCLCSWRPWPDTLOCRRC;;;SY)
(A;;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;BA)(A;;CCLCSWLOCRRC;;;AU)
(A;;CCLCSWRPWPDTLOCRRC;;;PU)(A;;RPWPDT;;;S-1-5-21-1417001333-
507921405-2147233035-1004)(A;;RPWPDT;;;S-1-5-21-1417001333-
507921405-2147233035-1003)(A;;RPWPDT;;;S-1-5-21-1417001333-
507921405-2147233035-1004)
```

To then use the windows icon of the Tomcat GUI in the process bar, you need to change adjust the rights on the following three keys in the registry editor:

- HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tomcat7
- 32-bit: HKEY_LOCAL_MACHINE\SOFTWARE\Apache Software Foundation\Procrun 2.0
- 64-bit: HKEY_LOCAL_MACHINE\SOFTWARE\Wow632Node\Apache Software Foundation\Procrun 2.0
- HKEY_LOCAL_MACHINE\SOFTWARE\Apache Software Foundation\Tomcat

Execute the following steps three times, eacht time for a different key:

- Right click on a key like that and choose 'Permissions...'.
- Give the group Full Control.
- Click on 'Advanced'.
- Check "Replace permission entries on all child objects with entries shown here that apply to child objects".

- Select 'OK'.

- Select 'OK'.

Start/stop Script

- [UNIX/Linux] Create a script ‘invantive’ in /etc/init.d with the next content:

```
#!/bin/bash
#
# Invantive Estate
#
# (C) Copyright 2004-2012 Invantive Software BV, the Nether-
lands. All rights reserved.
#
### BEGIN INIT INFO
# Provides:       invantive
# Required-Start: oracle
# Required-Stop:  oracle
# Default-Start:  3 5
# Default-Stop: 0 1 2 6
# Description:    Start up Invantive Estate.
### END INIT INFO

usage()
{
  echo "Usage: $0 [start|stop|status]"
}
if [ "$#" -ne "1" ]; then
  usage
  exit 1
fi

MODE="$1"

#
# Read configuration.
#
. /etc/invantive.conf

echo Invantive Estate settings:
echo Home directory = $INVANTIVE_HOME

if [ "$MODE" = "start" ]; then
  echo "Starting Invantive Estate."
  echo "Service Tomcat"
  su -c $INVANTIVE_USER -c "$TOMCAT_HOME/bin/startup.sh"
elif [ "$MODE" = "stop" ]; then
  echo "Stopping Invantive Estate."
  echo "Service Tomcat"
  su -c $INVANTIVE_USER -c "$TOMCAT_HOME/bin/shutdown.sh"
  sleep 1
elif [ "$MODE" = "restart" ]; then
  echo "Restarting Invantive Estate."
  su -c $INVANTIVE_USER -c "$TOMCAT_HOME/bin/shutdown.sh"
  sleep 1
  su -c $INVANTIVE_USER -c "$TOMCAT_HOME/bin/startup.sh"
elif [ "$MODE" = "status" ]; then
  echo "Status Invantive Estate."
  echo "Service Tomcat"
  ps -f -u $INVANTIVE_USER
else
  usage
  exit 1
fi
```

- [UNIX/Linux] Create a script ‘invantive.conf’ with configuration data with the following content:

```
#
# Invantive Estate configuration file.
#
# This file is different in each environment.
#
# (C) Copyright 2004-2012 Invantive Software BV, the Nether-
lands. All rights reserved.
#

INVANTIVE_ESTATE_ENVIRONMENT=estate
export INVANTIVE_ESTATE_ENVIRONMENT

INVANTIVE_ESTATE_USER=estate
export INVANTIVE_ESTATE_USER

INVANTIVE_ESTATE_HOME=/opt/home/$INVANTIVE_ESTATE_USER
export INVANTIVE_ESTATE_HOME

TOMCAT_HOME=/opt/tomcat
export TOMCAT_HOME

JAVA_HOME=/usr/java/j2sdk1.6_XXX
export JAVA_HOME

#
# Include jmx access and sufficient memory.
#
# Reserve at least 25 Mb per concurrent user.
#
JAVA_OPTS="="-Xmx512m -Djava.awt.headless=true -Dcom.sun.manage-
ment.jmxremote -XX:MaxPermSize=256m -XX:+UseConcMarkSweepGC -XX:
+CMSClassUnloadingEnabled"
export JAVA_OPTS

umask 002

NLS_LANG="DUTCH_THE NETHERLANDS.AL32UTF8"
export NLS_LANG

PATH=$PATH:$HOME/bin
```

```
export PATH

echo
"***************************************************************
*****"
echo Invantive Estate
echo
"***************************************************************
*****"
echo "Environment:               $INVANTIVE_ESTATE_ENVIRONMENT"
echo "To start Invantive Estate: invantive start"
echo "To stop Invantive Estate:  invantive stop"
echo "To get the status:    invantive status"
echo
"***************************************************************
*****"
echo "(C) Copyright 2004-2012 Invantive Software BV, the Nether-
lands. All rights reserved."
echo
"***************************************************************
*****"
```

1.10.2.3 Installation Database

Perform the following steps to install the database:

- [All] Stop Tomcat, for example with '/etc/init.d/invantive stop' (UNIX) or 'net stop "Apache Tomcat"' (Microsoft Windows).
- [All] Create/check configuration files p104/cfg/XXX.bat and p104/cfg/XXX.sql.
- [All, Installation] The tablespace will be created automatically if all data files are located in 1 folder. Else: Create a tablespace '<OMGEVING>' that will contain the data of Invantive Estate. This can be done, for example, with:

  ```
  create tablespace invantive datafile 'LOCATION' size 25m autoex-
  tend on maxsize 2000m
  ```

- [All, Installation] In case the application is installed for the first time, use bubs_create.bat in the bin-directory to prepare the installation of Invantive Estate. This takes about 1 minute.
- [All, Installation] If the application is installed for the first time, use bubs_smoke.bat in the bin directory to install the application. This takes approximately 60 minutes. Break off when asked if the demo data can be loaded.
- [All, Installation] Create the license with the special installation steps from doc/*.sql.
- [All, Upgrade] Run the upgrade_main.sql script from the map ddl/upgrades/build<DOEL-1>to<DOEL>. It takes approximately 10 minutes to the steps that may only be performed after the upgrade. Confine yourself to the builds between the start and target build. Execute bubs_smoke.bat located in the bin-directory if this is mentioned in the upgrade_main.sql script. It will take 60 minutes. Abort when asked if the demo data should be loaded.
- [All, Upgrade] Install the possible customizations from xx<COMPANYNAME>.sql.
- [All] Start Tomcat, for example with '/etc/init.d/invantive start' (UNIX) or 'net start "Apache Tomcat"' (Microsoft Windows).

1.10.2.4 Installation ETL jobs

Depending on the configuration ETL jobs are needed for such links to the books. These scripts are available in the addons folder.

- Always copy scripts from the 'generic' to the etl folder.
- Also, copy the scripts from the folder for the desired link to the etl folder.

1.10.2.5 Installation Invantive Webservice for Invantive Estate

Execute the installation steps mentioned under Installation Invantive Webservice 608 to ensure that the software can establish a connection with the database.

1.10.2.6 Installation Outlook Add-In User Interface

Execute the following steps to install the Outlook Add-in:

- Create a network drive, for example, v: to which the distribution folder is linked.

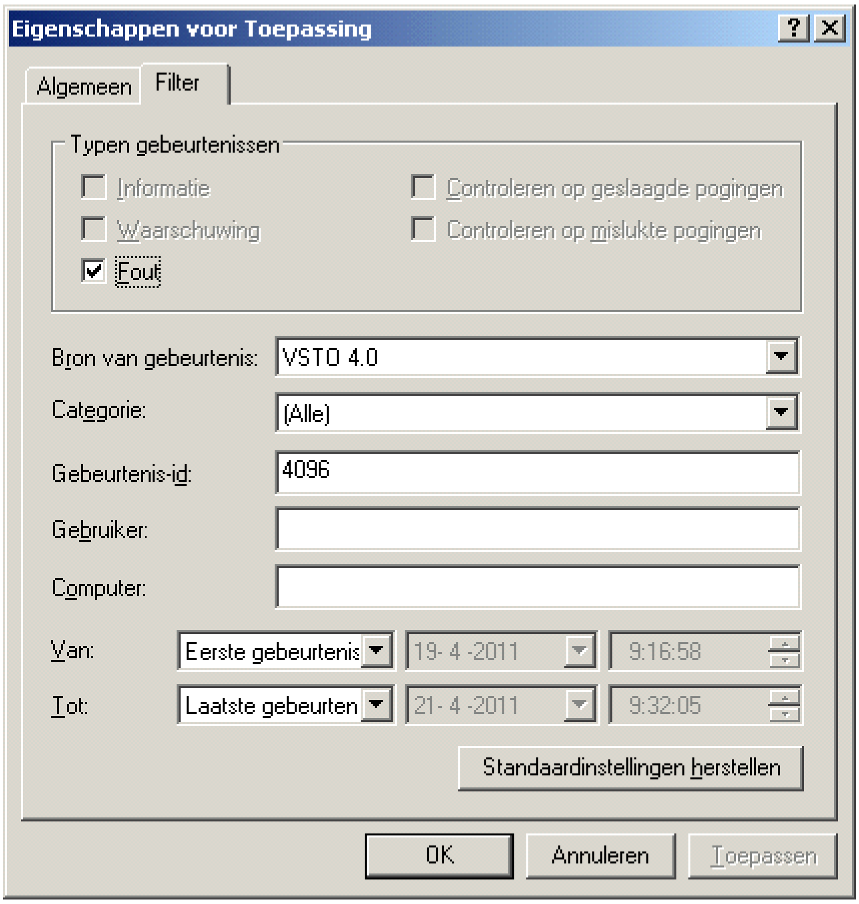
Run setup.exe in the network drive as the Windows user that is going to use the Outlook Add-in.

- In case the installation fails with a message about a non-trusted certificate when selecting ‘Details’ , check if the file location is in the list of trusted websites of Internet Explorer. If needed add it as for example ‘file:\\SERVERNAME’ or ‘file:///v:’.

The Outlook Add-in will automatically create a number of additions as administrator where necessary, namely Microsoft .Net 4 and Microsoft Visual Studio 2010 Tools for Office Runtime (VSTOR 2010) Redistributable. It may be useful to distribute these already. You can find the software at:

- Microsoft .NET Framework 4.5 (Webinstaller): http://www.microsoft.com/downloads/details.aspx?FamilyID=9cfb2d51-5ff4-4491-b0e5-b386f32c0992&displaylang=en
- Microsoft Visual Studio 2010 Tools for Office Runtime (VSTOR 2010) Redistributable: http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=f4d7a5a1-8ca8-489d-97eb-663a54d609a0

When errors arise during installation, you can sometimes find them back with eventviewer using the following filter:



Eigenschappen voor Toepassing
Algemeen
Filter

Typen gebeurtenissen

☐ Informatie
☐ Waarschuwing
☑ Fout
☐ Controleren op geslaagde pogingen
☐ Controleren op mislukte pogingen

Bron van gebeurtenis: VSTO 4.0

Categorie: (Alle)

Gebeurtenis-id: 4096

Gebruiker:

Computer:

Van: Eerste gebeurtenis 19- 4 -2011 9:16:58

Tot: Laatste gebeurten 21- 4 -2011 9:32:05

Standaardinstellingen herstellen
OK
Annuleren
Toepassen

Changes in Outlook

The information in Microsoft Outlook and Microsoft Exchange may be extended by the Outlook Add-in with additional fields (‘user defined properties’) like visionUurId, visionForGUID, visionUurTransactieBijgewerkt and visionOutlookChangedDueToSync. If migrations take place you should test that these fields do not disappear and that the Outlook **GUIDs** do not change.

Use ExMerge therefore preferably not. When it is necessary to be used, involve timely an Invantive consultant.

Assign Rights to Calendars

Rights to Calendars

To schedule work and/or book hours for another employee, you need to have rights on its calendar.

The employee needs at least to assign the role of 'Editor' for the one who books hours and needs at least to assign the role of 'Commentator' to the one who schedules hours.

The first time the role need to be even 'Owner', unless the one who books hours has synchronized the hours already one time in the past.

If you do not see categories, you have worked the first time without the rights as ‘Owner’. In that case you need to assign again 'Owner' rights to one who books the hours.

Labor Types as Categories

Moreover, a person whose calendar is not available in the public folders has to login into the application at least once so that the labor types become available as categories in Microsoft Outlook. If someone has his calendar available in the public folders, this will not be necessary: in that case the categories are used of the person who registers the hours in the calendar.

Profiles

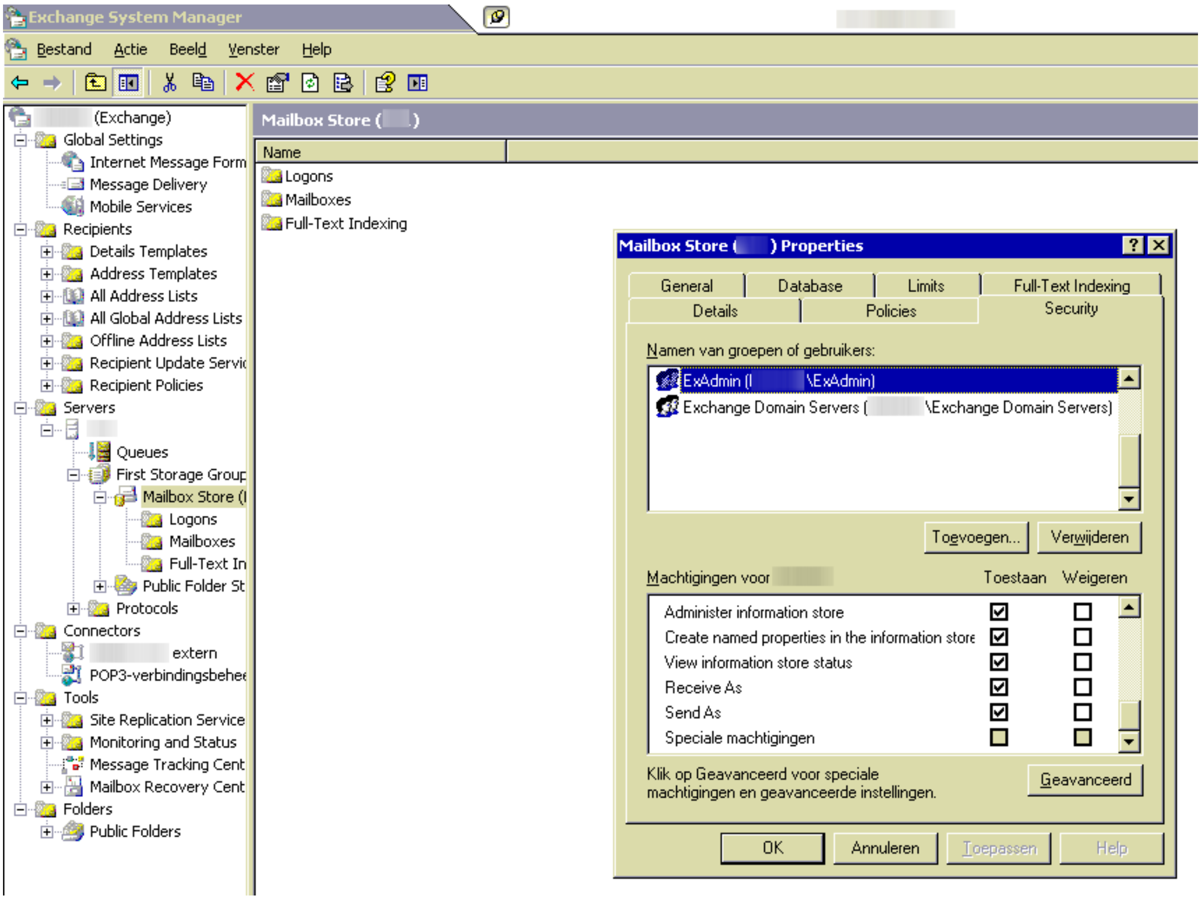
To set up rights properly on behalf of others, you can create a profile for that user. Go to the configuration screen and select ‘E-mail’. Then choose 'Profiles' and enter a profile for your colleague which you will use to assign in his name rights to others.

Rights on Calendar for Hours in Microsoft Exchange 2003

Microsoft Exchange 2003

Under Microsoft Exchange 2003 this optionally can be done more centrally as follows:

- Create a rolel 'ExAdmin' in Microsoft Active Directory.
- Assign ‘ExAdmin’ send as/receive as rights to this role on the mail store:


Exchange System Manager
Bestand
Actie
Beeld
Venster
Help
(Exchange)
Global Settings
Internet Message Form
Message Delivery
Mobile Services
Recipients
Details Templates
Address Templates
All Address Lists
All Global Address Lists
Offline Address Lists
Recipient Update Servic
Recipient Policies
Servers
Queues
First Storage Group
Mailbox Store (I
Logons
Mailboxes
Full-Text In
Public Folder St
Protocols
Connectors
extern
POP3-verbindingsbehee
Tools
Site Replication Service
Monitoring and Status
Message Tracking Cent
Mailbox Recovery Cent
Folders
Public Folders
Mailbox Store ( )
Name
Logons
Mailboxes
Full-Text Indexing
Mailbox Store ( ) Properties
General
Database
Limits
Full-Text Indexing
Details
Policies
Security
Toevoegen...
Verwijderen
Geavanceerd
OK
Annuleren
Toepassen
Help

Namen van groepen of gebruikers:

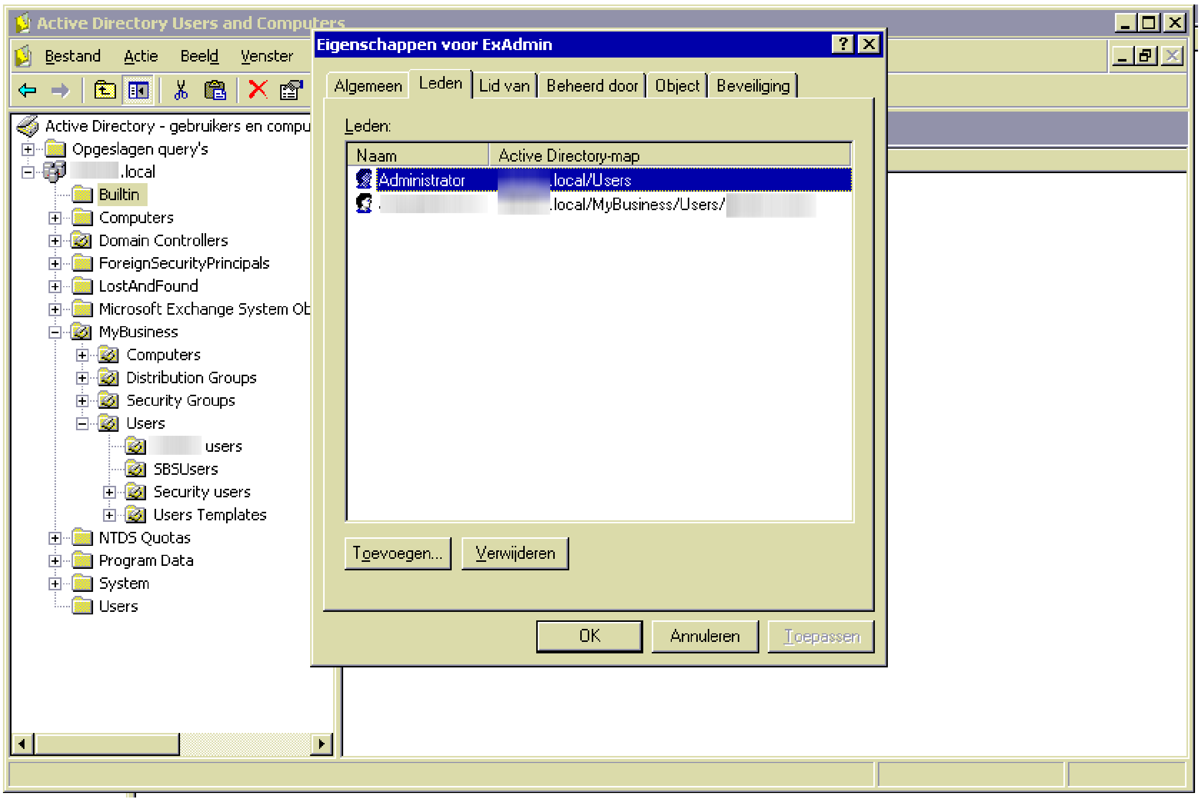
ExAdmin ([redacted]\ExAdmin)
Exchange Domain Servers ([redacted]\Exchange Domain Servers)

Machtigingen voor [redacted]

	Toestaan	Weigeren
Administer information store	☑	☐
Create named properties in the information store	☑	☐
View information store status	☑	☐
Receive As	☑	☐
Send As	☑	☐
Speciale machtigingen	☐	☐

Klik op Geavanceerd voor speciale machtigingen en geavanceerde instellingen.

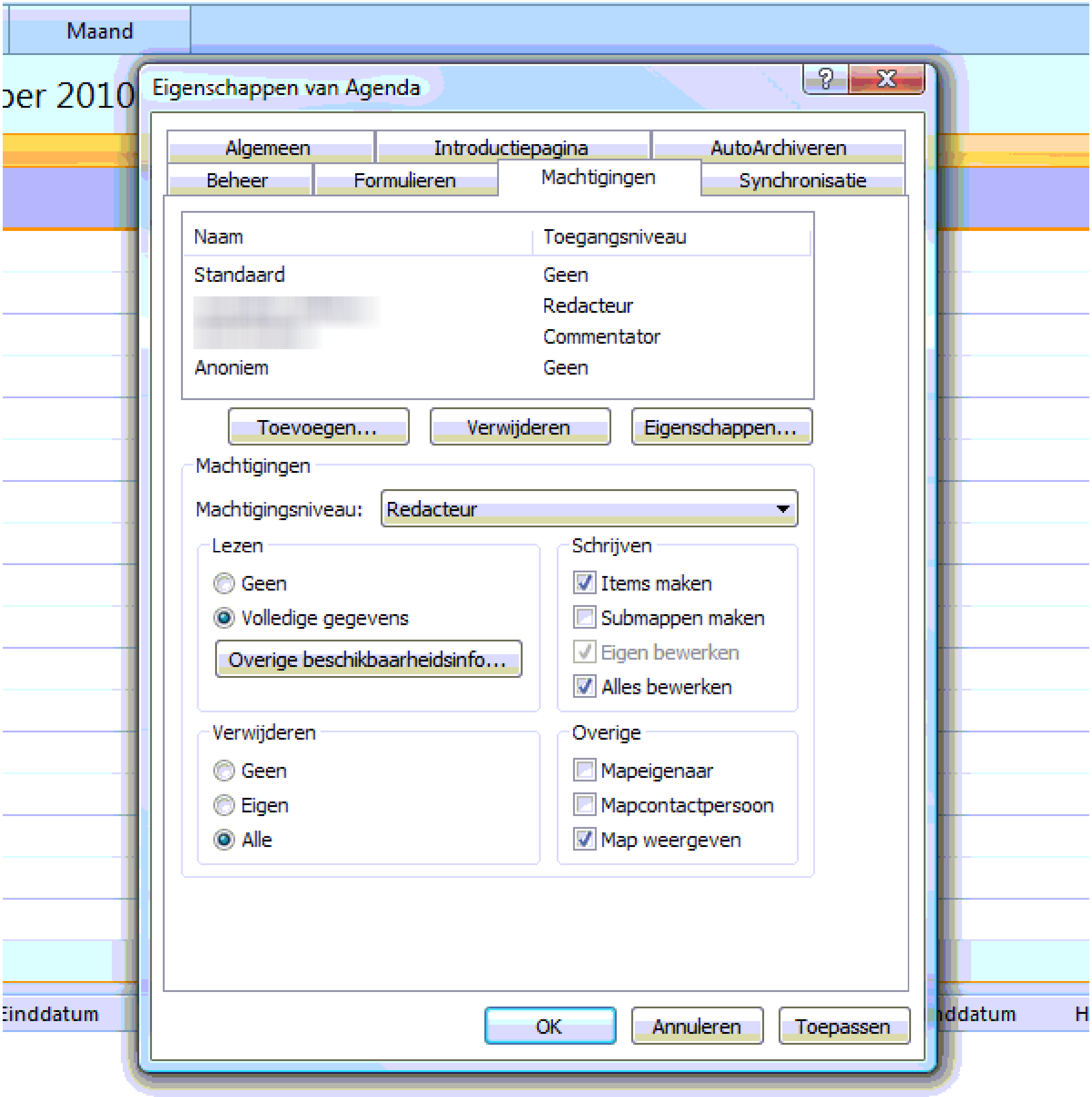
- Assign the role ‘ExAdmin’ to the person who's function will be assigning rights to others.


Active Directory Users and Computers
Bestand
Actie
Beeld
Venster
Active Directory - gebruikers en compu
Opgeslagen query's
[redacted].local
Builtin
Computers
Domain Controllers
ForeignSecurityPrincipals
LostAndFound
Microsoft Exchange System Ob
MyBusiness
Computers
Distribution Groups
Security Groups
Users
[redacted] users
SBSUsers
Security users
Users Templates
NTDS Quotas
Program Data
System
Users
Eigenschappen voor ExAdmin
Algemeen
Leden
Lid van
Beheerd door
Object
Beveiliging
Leden:
Toevoegen...
Verwijderen
OK
Annuleren
Toepassen

Naam	Active Directory-map
Administrator	[redacted].local/Users
[redacted]	[redacted].local/MyBusiness/Users/[redacted]

Next:

- Create a profile for Microsoft Outlook and link this profile with the user which will issue rights.
- Start Microsoft Outlook and select the correct profile.
- Log on to Invantive Estate.
- The categories are automatically created based on labor types.
- Assign rights:


Maand
ber 2010
Eigenschappen van Agenda
Algemeen
Introductiepagina
AutoArchiveren
Beheer
Formulieren
Machtigingen
Synchronisatie
Toevoegen...
Verwijderen
Eigenschappen...
Overige beschikbaarheidsinfo...
OK
Annuleren
Toepassen
Einddatum
nddatum
H

Naam	Toegangsniveau
Standaard	Geen
[redacted]	Redacteur
	Commentator
Anoniem	Geen

Machtigingen

Machtigingsniveau: Redacteur

Lezen
○ Geen
● Volledige gegevens

Schrijven
☑ Items maken
☐ Submappen maken
☑ Eigen bewerken
☑ Alles bewerken

Verwijderen
○ Geen
○ Eigen
● Alle

Overige
☐ Mapeigenaar
☐ Mapcontactpersoon
☑ Map weergeven

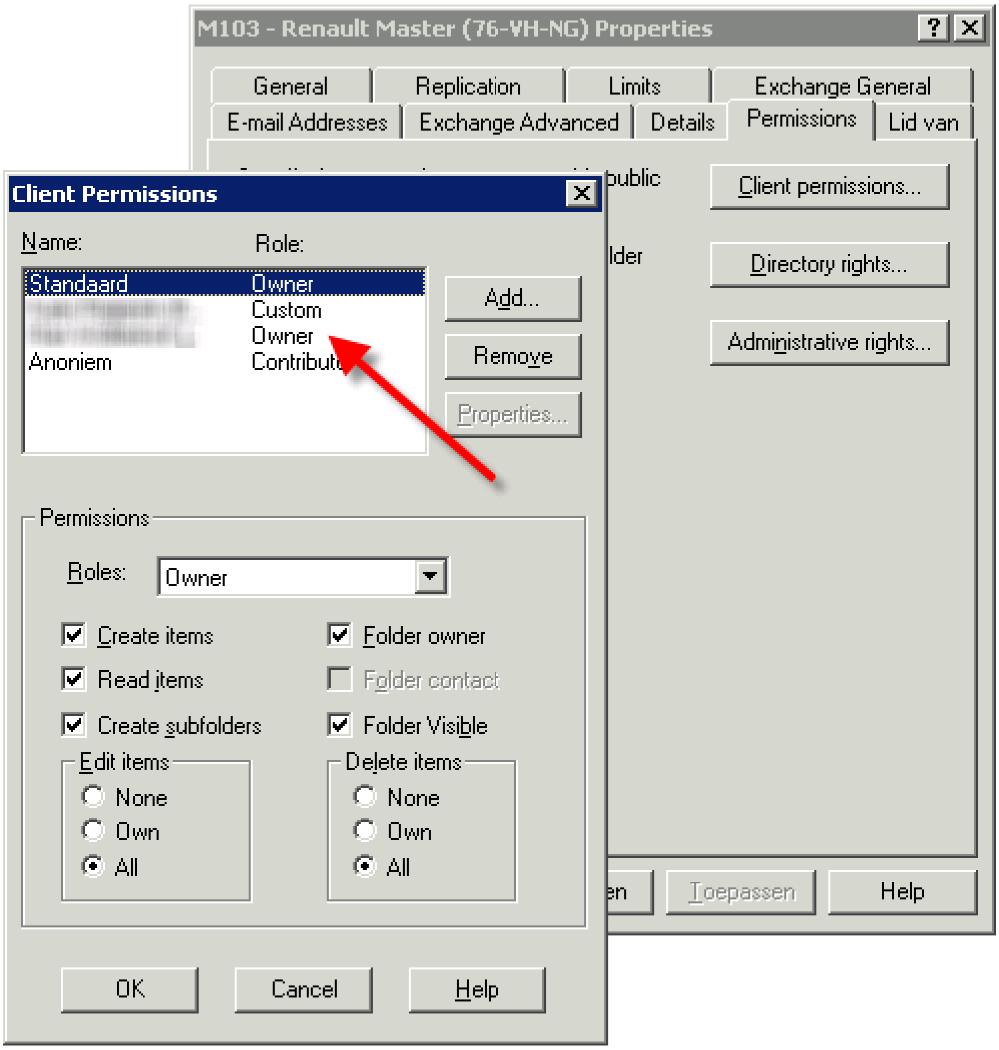
Ultimately, if necessary:

- Remove the user as member of the role ‘Exadmin’ in the Microsoft Active Directory.

Microsoft Exchange 2003 Public Folder Calendars

Occasionally it happens that calendars are added as public folders for example for machines. The person who synchronizes calendars always needs to have the role of Owner for those calendars. The labor types (categories in Microsoft Outlook) are copied from the calendar of the person who opens the public calendar.

Example:


M103 - Renault Master (76-VH-NG) Properties
General
Replication
Limits
Exchange General
E-mail Addresses
Exchange Advanced
Details
Permissions
Lid van
public
lder
Client permissions...
Directory rights...
Administrative rights...
en
Toepassen
Help
Client Permissions
Add...
Remove
Properties...
OK
Cancel
Help

Name:	Role:
Standaard	Owner
[redacted]	Custom
[redacted]	Owner
Anoniem	Contribut

Permissions

Roles: Owner

☑ Create items ☑ Folder owner
☑ Read items ☐ Folder contact
☑ Create subfolders ☑ Folder Visible

Edit items: ○ None ○ Own ● All

Delete items: ○ None ○ Own ● All

Rights on Calendar for Hours in Microsoft Exchange 2007

Microsoft Exchange 2007

With Microsoft Exchange 2007 this can be done more centrally as follows:

- Create a script similar to this code:

```
#
# Maintain equipment and rooms.
#
$rooms = @( ("fails","for some reason")
          , ("room development", "Guido Leenders")
          , ("room finance & sales", "Guido Leenders")
          , ("ws09", "Guido Leenders")
          , ("ws25", "Guido Leenders")
          , ("ws69", "Guido Leenders")
          )

foreach ($room in $rooms)
{
#
# The next two are only for resources.
#
# Set-MailboxCalendarSettings -Identity $room[0] -AutomatePro-
cessing AutoAccept -AllRequestInPolicy:$True -AllBookInPoli-
cy:$False -ResourceDelegates $room[1] -RemovePrivateProper-
ty:$False
# Add-ADPermission -Identity $room[0] -User $room[1] -Extende-
dRights Send-As
Add-MailboxPermission -AccessRights FullAccess -Identity
$room[0] -User $room[1] }

echo "Check http://extranet.XXX.com/owa/ROOM@XXX.com"
```

- Execute it.

Rights on Calendar for Hours in Microsoft Exchange Online

1.10.3 Installation Test

Perform the following steps to check the functioning of the installation:

- [All] Log on as user ‘system’ on the application with the URL: http://SERVER/invantive/.
- [All] Install a license via the screen License 343.
- [All] Also set the correct product in (Invantive Estate of Invantive Vision).
- [All] Adjust the profile options ‘bubs%irectory’ in the screen Profile Option Values 254 so it points to the ENVIRONMENTDIR map.
- [All] Enter in settings 336 ENVIRONMENTDIR/documents for the document folder on the server.
- [Alle] Vul in de instellingen 336 ENVIRONMENTDIR/recyclebin in voor de documentenprullenbakmap op server.
- [All] Fill in the Settings 336 ENVIRONMENTDIR/tmp for the documents load folder on the server.
- [All] Enter in settings 336 the Logo on Reports (URL) for the correct product (vision_rapporten_logo.png or estate_rapporten_logo.png).
- [All] Enter in settings 336 the Logo on Screens (URL) for the correct product (vision_schermen_logo.png or estate_schermen_logo.png).
- [All] Enter in settings 336 the splash screen (URL) for the correct product (vision_splashscreen.png or estate_splashscreen.png).
- [All] If you would like you could subsequently load the demo data.

Then you can test the environment with the following steps:

- [All] Test the web application with the URL: http://SERVER/invantive/.
- [All] Open the project screen in the web frontend.
- [All] Enter a person in the web frontend.
- [All] Open a random PDF rapport, for example 'Functions per Role (PDF)' in the web frontend.
- [All] Run a background process, for example 'Test: multiple dependent processes'.
- [All] Open a document, for example the execution of the background process.
- [All] Test the Outlook Add-in by logging in as Aeilkema/demo.
- [All] Create a process.

- [Alle] Add an email with an attachment to the process.
- [All] Open the attachment with the process.
- [All] Start an Excel rapport over that process.
- [All] Write an hour down to the process in the calendar and synchronise the calendar.
- [All] Get the hours in PDF format from the calendar.
- [All] Test Invantive Control by signing in as Aeilkema/demo.
- [All] Install the demo calculation model.
- [All] Synchronise the calculation model.
- [Alle] Test Invantive Composition by signing in as Aeilkema/demo.
- [All] Open a document from the document management system.

1.10.4 Duplicate Environment

There are three ways to duplicate an environment:

- Based on instructions from the application.
- Based on a database export of the application schema.
- Based upon a full database export.

The methods are listed in order of preference. However, there are restrictions that make that sometimes a less convenient method should be used:

- Based on instructions from the application: request that the database and the application of the home environment are available, including background processing.
- Based on a database export of the application schema: requires that the database of the home environment is available.
- Based on a full database export: no requirements for the home environment.

1.10.4.1 Duplicate Environment using Instructions

Duplicating an environment using instructions allows you to change the names of the involved schemas. Moreover, this duplicating method is the most simple to implement for employees who are not thoroughly familiar with the used database technology.

Perform the following steps:

- Start the background job ‘Administration: print a script for copying the environment’.
- Give the old prefix as parameters of the environment (for example 'PBUBS') and the desired prefix (for example ‘TBUBS’).
- Execute the instructions from the output of the background process.

1.10.4.2 Duplicate Environment using an Export Schema

To duplicate an environment using a schema export makes it possible to change the names of the schemas involved.

Perform the following steps to copy an environment, for example, by copying production back to test:

- Create a configuration file.
- Create the users and tablespaces with bubs_create.bat.
- Install the database of Invantive Estate till the instantiate objects if the target environment is used for the first time.
- Export the data to a file with the statements:

```
set NLS_LANG=AMERICAN_AMERICA.AL32UTF8
exp userid=pbubs/pbubs@orcl buffer=1000000 file=pbubs.dmp
grants=no log=pbubs_exp.log consistent=yes
```

- In the first ten lines of the log file check that there has been no conversion of characters between character sets.
- Stop Microsoft IIS and Apache Tomcat for the target environment.
- Clear the target environment: delete all old tables, sequences, views, functions, procedures, triggers and packages.
- Upload the file in the new environment based upon an export made by the owner of the application:

```
set NLS_LANG=AMERICAN_AMERICA.AL32UTF8
imp userid=tbubs/tbubs@orcl buffer=1000000 file=pbubs.dmp
log=imp_bubs.log full=y ignore=y
```

- Check that all objects are valid and check that the counts concerning numbers of objects between the environments are correct, for instance with the following query:

```
select owner
,      count(*)
,      object_type
,      status
from   dba_objects
where  owner like '%BUBS'
group
by     owner
,      object_type
,      status
/
```

- Copy the rights by executing the following script as being the Invantive Estate application owner (in this example pbubs). Do replace OLD and NEW by the right schema names:

```
set pages 0
set feedback off
set lines 500
set trimspool on
spool grt.sql
select replace
       ( replace
         ( 'grant '
           || privilege
           || ' on '
           || table_name
           || ' to '
           || grantee
           || ';'
         , 'OUD'
         , 'NIEUW'
         )
       , 'OUDITGEN'
       , 'NIEUWITGEN'
       )
       txt
from   user_tab_privs
where  1=1
and    grantee <> 'OUD'
/
spool off
exit
```

- Then, log on as the new Invantive Estate application owner NEW under Oracle SQL*Plus and execute the script:

```
connect NIEUW@orcldb01
@grt
```

- Add the needed synonyms under Oracle SQL*Plus:

```
connect NIEUW_tomcat@DATABASEID
begin
  <BUBS OWNER>.bubs_maintain_my_synonyms('<BUBS OWNER>');
end;
```

- Finally, copy the software from the Tomcat webapps tree to the target server:

```
cd /opt/tomcat/webapps
mv bubstarget /tmp/bubstarget
cp -pr bubssource bubstarget
```

- Do not forget to enter the correct passwords into site.properties and to adjust the URL's. See Site.properties 553.
- Restart Invantive Estate:

```
/etc/init.d/bubs3 restart
```

- Open the application as user ‘system’.
- Change in settings the description of the environment.
- Adapt the profile options.
- Change in the screen financial Administrations, the administration from where data is uploaded.
- If necessary, change the passwords of all users with an SQL update:

```
connect NIEUW_tomcat@DATABASEID

begin
  bubs_session.set_session_info(null, null, 'system', null,
null, null, null);
end;
/

update bubs_gebruikers_v
set    gbr_wachtwoord='test'
```

```
where  gbr_wachtwoord is not null
/
commit
/
```

- Delete all documents from the document folder of the target environment.
- Copy the documents in the document folder of the source environment to the target environment.
- Link the documents to the new directory:

```
update bubs_documenten_v
set    dct_bestandsinhoud=bfilename('<NIEUW_DCT>', bubs_get_bfi-
le_filename(dct_bestandsinhoud))
where  bubs_get_bfile_directory(dct_bestandsinhoud) <>
'<NIEUW>_DCT'
and    dct_bestand_url is null
/
commit
/
```

- Update the license as user ‘system’.

1.10.4.3 Duplicate Environment including complete Database Export

According to this procedure, a complete database export can only be used to duplicate an environment without changing the names of the schemas involved.

Follow these steps to copy a home environment based on a full database export:

- Export the data to a file with the statements:

```
set NLS_LANG=AMERICAN_AMERICA.AL32UTF8
exp userid=system/...@orcl buffer=1000000 file=pbubs.dmp
grants=no log=pbubs_exp.log consistent=yes full=yes
```

- Check in the first ten lines of the log file that no conversion of characters between character sets has occurred.
- Stop Microsoft IIS and Apache Tomcat for the target environment.
- Clear the target environment: delete all old tables, sequences, views, functions, procedures, triggers and packages under the application schema.
- Upload the file in the target environment based upon a complete database export (fill in the relevant schedules in both ‘fromuser’ as in ‘touser’):

```
set NLS_LANG=AMERICAN_AMERICA.AL32UTF8
imp userid=system/...@orcl buffer=1000000 file=pbubs.dmp log=im-
p_bubs.log full=y ignore=y fromuser=(abubs,abubs_web,abubs_we-
b_res) touser=(abubs,abubs_web,abubs_web_res)
```

- Further follow the instructions in Duplicate Environment using an Export Schema 550 beginning with ‘Copy the software...’.

1.10.5 Site.properties

By using the file site.properties in the WEB-INF folder of the web application folder, the application can be configured:

- The connection with Oracle RDBMS and the ERP system.
- The multilinguality.
- The connection with the user date (usernames and passwords)
- Other minor adjustments.

Since they directly influence the core of the application, these changes can only be made by qualified consultants of Invantive Software BV.

The procedure for applying changes consists of:

- Stop web server.
- Edit site.properties.
- Start web server.
- The changes will be effective immediately after a user logs on.

For more information regarding its use, you can use the below copy.

Example

```
#logger properties @0-029F305D
logfile=c:\\temp\\bubs3.log
logpriority=debug
# Logsize in Kb. File is truncated and written after this size.
logsize=1024000
#End logger properties

#url properties @0-E8A730F5
serverUrl=http://localhost/bubs3
securedUrl=/bubs3
#End url properties

#localization properties @0-0D67F023
encoding=utf-8
language=Netherlands
defaultDateFormat=dd-MM-yyyy
defaultBooleanFormat=Y;N
requestEncoding=utf-8
#End localization properties

#messages bundle @0-77F70051
messagesBundle=MessagesBundle
#End messages bundle

#file upload @0-215C2A9B
com.codecharge.util.upload.storage=memory
#End file upload

#body post processor class name @0-C5219FBD
bodyPostProcessor.className=com.codecharge.util.CcsBodyPostProcessor
#End body post processor class name

#template class name @0-8EA332EE
```

```
template.class.name=com.codecharge.template.CCSTemplate
#End template class name

#templateSource class name @0-840DD0B6
templateSource.class.name=com.codecharge.template.FileTempla-
teSource
#End templateSource class name

#templateParser class name @0-7F4F85C9
templateParser.class.name=com.codecharge.template.TemplateParser
#End templateParser class name

#templateFolder @0-52356875
templateFolder=
#End templateFolder

#styles settings @0-27E71411
useDynamicStyles=True
defaultStyle=Apricot
SSEnableQueryString=True
SSQueryStringName=style
SSEnableSession=True
SSSessionName=style
SSEnableCookie=False
SSCookieName=style
SSCookieExpired=365
#End styles settings

#defaultLocale @0-45E529E7
defaultLocale=nl
#End defaultLocale

#localeSwitching @0-02E16A18
useI18nFeatures=True
enableQueryString=true
queryStringName=locale
enableSession=true
sessionName=locale
languageSessionName=lang
enableCookie=false
cookieName=locale
cookieExpired=365
enableHTTPHeader=false
httpHeaderName=
#End localeSwitching

#authentication properties @0-045E17BF
authenticator.securityType=CCS
authenticator.factoryClassName=com.codecharge.util.CCSAuthenti-
catorFactory
authenticator.securityStorage=session
authenticator.inheritanceRights=False
authenticator.userIdFieldName=GBR_ID
authenticator.userIdVarName=UserID
authenticator.loginFieldName=GBR_AANMELD_CODE
authenticator.loginVarName=UserLogin
authenticator.passwordFieldName=GBR_WACHTWOORD
authenticator.connectionName=bubs_tomcat
authenticator.tableName=BUBS_GEBRUIKERS_V
#End authentication properties

#tags to lower case @0-0649DE20
tags.toLowerCase=false
#End tags to lower case

#Connection 'bubs_tomcat' properties @1-28E264C0
bubs_tomcat.name=bubs_tomcat
bubs_tomcat.driver=oracle.jdbc.driver.OracleDriver
bubs_tomcat.dbType=Oracle
bubs_tomcat.url=jdbc:oracle:thin:@localhost:1521:ORCL
bubs_tomcat.maxconn=250
bubs_tomcat.user=bubs_tomcat
bubs_tomcat.password=bubs_tomcat
bubs_tomcat.timeout=3600
bubs_tomcat.fieldLeftDelim="
bubs_tomcat.fieldRightDelim="
bubs_tomcat.dateLeftDelim='
bubs_tomcat.dateRightDelim='
bubs_tomcat.dbNameUppercase=True
bubs_tomcat.dateFormat=dd-MM-yyyy HH:mm
bubs_tomcat.booleanFormat=Y;N
bubs_tomcat.optimizeSQL=True
bubs_tomcat.sessionCommand0=ALTER SESSION SET NLS_DATE_FORMAT =
'DD-MM-YYYY HH24:MI'
#End Connection 'bubs_tomcat' properties

#Connection 'bubs_exact' properties @2-444594F2
bubs_exact.name=bubs_exact
bubs_exact.driver=com.microsoft.jdbc.sqlserver.SQLServerDriver
bubs_exact.dbType=MSSQLServer
bubs_exact.url=jdbc:microsoft:sqlserver://localhost:21433
bubs_exact.maxconn=10
bubs_exact.user=bubs
bubs_exact.password=expbubs
bubs_exact.timeout=300
bubs_exact.fieldLeftDelim=[
bubs_exact.fieldRightDelim=]
bubs_exact.dateLeftDelim='
bubs_exact.dateRightDelim='
bubs_exact.dbNameUppercase=True
bubs_exact.dateFormat=yyyy-MM-dd HH:mm:ss
bubs_exact.booleanFormat=Y;N
bubs_exact.optimizeSQL=True
#End Connection 'bubs_exact' properties
```

Meaning

The meaning of the relevant settings is:

- logfile: via logfile you can set at what place the log file must be made. The user of the operating system under who the web server is executed, must have writing access to this.

- logpriority: via logpriority you can set how detailed the web application must store its activities in the log file. Possible values are 'error', 'warn', 'info' and 'debug'. 'Error' stores only error messages, while the other settings add more information.
- logsize: the maximum size of the log. If this size in Kb is exceeded, then the file is deleted and recreated for writing.
- serverUrl: the URL serving as a base for normal use of the web application via http. A screen URL is constructed using the value of the 'serverURL' adding for example 'bubs_odt_all.do' for the orders screen.
- securedUrl: the Url serving as a base for logging into the web application via https.
- encoding: the character set used to show the data in the browser. 'Utf-8' is the most flexible character set, in which for all common languages all characters are simultaneously present.
- requestEncoding: the character set used to process data which were received from the browser.
- language: the language used in case no user specific language has been selected. This language is thus normally used for the login screen, for example.
- defaultLocale: the geographical region setting used in case no user specific region has been selected. This region setting is thus normally used for the login screen, for example.

The 'authenticator' is the module that validates whether users are actually the person they pretend to be. By default, usernames and passwords are used in the way they are registered in the application itself (see Persons) 97. One can also choose for a deviating authentication mechanism, for example by using LDAP or Microsoft Active Directory.

The meaning of the settings starting with 'authenticator.' is:

- authenticator.securityType: always has to be turned to 'CCS'.
- authenticator.factoryClassName: the Java component used to execute the authentication. For the built-in authentication based on the usernames in the screen Persons 97 the value 'com.codecharge.util.CCSAuthenticatorFactory' has to be entered. For LDAP the value 'com.codecharge.util.LDAPAuthenticatorFactory' must be entered.
- authenticator.userIdVarName: the name of the session variable holding the unique ID of the user, as determined in 'authenticator.userIdFieldName'. Always 'UserID'.
- authenticator.loginVarName: the name of the session variable holding the username of the user, as determined in 'authenticator.loginFieldName'. Always 'UserLogin'.
- authenticator.securityStorage: the location where the security credentials are stored. Always 'session'.
- authenticator.inheritanceRights: a reference whether or not the rights must be inherited from the lower authorisation levels. This setting must always have the value 'False' .
- authenticator.ldap.external.suffix: only for LDAP. The branch under which the organization registers and searches for its authentication data, for example, 'OU=MyBusiness,DC=invantive,DC=local'.
- authenticator.ldap.external.server: only for LDAP. The address of the LDAP server, for instance '192.168.172.11'.
- authenticator.ldap.external.protocol: only for LDAP. The used LDAP protocol, for instance 'ldap' or 'ldaps'.
- authenticator.ldap.external.useruniqueattribute: only for LDAP. The attribute uniquely showing across the organization which user it is. The value of this must also be registered in the user registration of Invantive Estate in the field 'Logon Code'. An example is

‘userPrincipalName’.

- authenticator.ldap.external.port: only for LDAP. The port number on the LDAP server, for instance 389 for LDAP or 636 for LDAPS.
- authenticator.ldap.external.fillinpatternlogin: only for LDAP. The LDAP query pattern in which the username is entered in order to log a user on to LDAP, as long as there are no characters in ‘fullrecognition’ present in the username. The text ‘:account’ is replaced by the entered username. An example is ‘cn=:account,OU=SBSUsers,OU=Users,OU=MyBusiness,DN=invantive,DN=local’.
- authenticator.ldap.external.fullrecognition: only for LDAP. The value in ‘authenticator.ldap.fillinpatternlogin’ is used in combination with the value registered in the LDAP attribute such as entered in ‘authenticator.ldap.useruniqueattribute’. However, in case the value in the LDAP attribute such as entered in ‘authenticator.ldap.useruniqueattribute’ contains one of the signs which have been filled out in this series of signs, solely the value of the LDAP attribute is sent to the server and the value in ‘authenticator.ldap.fillinpatternlogin’ is not used. An example is the character ‘@’.
- authenticator.ldap.external.fillinpatternuniqueattribute: only for LDAP. The pattern in which the username is entered in order to search for data of the user such as the email address, as long as there are no characters in fullrecognition present in the username. The text ‘:account’ is replaced by the entered username. An example is ‘:account@invantive.local’
- .authenticator.ldap.external.systemaccount: only for LDAP. The account with which the user ‘system’ has to be authenticated with. An example is ‘Administrator’. Note: This account is only used for LDAP authentication within the gateway. You always need to logon as the user ‘system’.
- authenticator.ldap.local.try: indicator or - if the LDAP authentication is not successful - an attempt should be made to authenticate the user with the entered password against the local user data (identical to ‘com.codecharge.util.CCSAuthenticatorFactory’.). This is occasionally used to quickly test scenarios for complex work flows.
- authenticator.ldap.local.validationSql: SQL statement to check the local authentication. The query should return one row if found and in all other cases nothing. The password is completed for all occurrences of: the user name and password for all occurrences of: account.
- authenticator.ldap.local.regexFilter: regular expression to determine for which user login codes local authentication is allowed, for example, ‘.*’ to allow this for all users.
- authenticator.tableName: only for built in user authentication. The name of the table or views which contains the user data used for authentication. Always ‘BUBS_GEBRUIKERS_V’.
- authenticator.connectionName: only for built-in users authentication. The name of the connection used to read the table. Always ‘bubs_tomcat’.
- authenticator.userIdFieldName: only for built-in users authentication. The name of the column storing the unique user's ID. Always ‘GBR_ID’.
- authenticator.loginFieldName: only for built in users authentication. The name of the column in which the username of the user is stated. Always ‘GBR_AANMELD_CODE’.
- authenticator.passwordFieldName: only for built-in users authentication. The name of the column in which the user's passwords is stated. Always ‘GBR_WACHTWOORD’.

To solve LDAP authentication problems, it is recommended to use LDAP tools such as ldapsearch (Unix / Linux), dsquery (Microsoft Windows Server 2003) or Novell's Ldapsearch (http://www.novell.com/coolsolutions/tools / 17350.html):

```
ldapsearch -x \
-h 192.168.172.11 \
-w secret \
-D 'cn=UW NAAM IN WOORDEN,OU=SBSUsers,OU=Users,OU=MyBusi-
ness,DC=invantive,DC=local' \
 -b OU=MyBusiness,DC=invantive,DC=local \
userPrincipalName=USER@invantive.local mail
```

The series of settings starting with ‘bubs_tomcat’ stores with which connection the application data can be approached. The meaning of the settings is:

- bubs_tomcat.name: the name of the connection. Always ‘bubs_tomcat’.
- bubs_tomcat.driver: the name of the Java Class used to set the connection in accordance with JDBC. Always ‘oracle.jdbc.driver.OracleDriver’.
- bubs_tomcat.dbType: the type of the underlying database. Always ‘Oracle’.
- bubs_tomcat.url: the JDBC URL used to build the connection with. This has the format ‘jdbc:oracle:thin:@’, followed by the server's name or address, the sign ‘:’, the port to which the database listener listens to (often 1521), again the sign ‘:’ and finally the name of the instance. An example is ‘jdbc:oracle:think:@localhost:1521:ORCL’.
- bubs_tomcat.maxconn: the maximum number simultaneous connections with the Oracle database. This usually is around 20% of the maximum number of simultaneous users. A higher value cannot do any harm, next to needing 10 Mb extra internal memory per connection really being used on peak moments. For development environments, it is sometimes helpful to set the number to ‘0’. This means that the connection is closed immediately after use. This costs performance, but makes it easier to avoid problems by holding ‘state’ (for example, ORA-04061 messages) when a developer changes code while the system is running. In most cases, removing an Oracle session will be automatically repaired by the web interface.
- bubs_tomcat.user: The Oracle user with whom the connection is made. For example, ‘bubs_tomcat’.
- bubs_tomcat.password: the password of the Oracle user as stored in ‘bubs_tomcat.user’.
- bubs_tomcat.timeout: the web application considers a user non-active after a while and logs him off. The value of ‘bubs_tomcat.timeout’ determines after how many seconds the user is automatically logged off.
- bubs_tomcat.fieldLeftDelim: the sign used to quote field names in database requests on the left. Always‘"’.
- bubs_tomcat.fieldRightDelim: bubs_tomcat.fieldLeftDelim: the sign used to quote field names in database requests on the right. Always‘"’.
- bubs_tomcat.dateLeftDelim: the sign used to quote date constants in database requests on the left. Always‘"’.
- bubs_tomcat.dateRightDelim: the sign used to quote date constants in database requests on the right. Always‘"’.
- bubs_tomcat.dBNameUppercase: always ‘True’.
- bubs_tomcat.dateFormat: the used database format for dates, always ‘dd-MM-yyyy HH:mm’.
- bubs_tomcat.booleanFormat: the used database format for fields containing a boolean flag (‘true’ or ‘false’). Always ‘Y;N’.
- bubs_tomcat.optimizeSql: always ‘True’.
- bubs_tomcat.sessionCommand0: the statement always being executed after building up a new session. Always ‘alter session set nls_date_format = ‘DD-MM-YYYY HH24:MI0145’’.

In the series of settings beginning with ‘bubs_exact.’ it is stored via which connection the data for the ERP interface are obtained. The meaning of the settings is:

- bubs_exact.name: the name of the connection Always ‘bubs_exact’.
- bubs_exact.driver: the name of the Java class used to build the connection in accordance with JDBC. For example, ‘oracle.jdbc.driver.OracleDriver’ for an Oracle RDBMS and ‘com.microsoft.jdbc.sqlserver.SQLServerDriver’ for Microsoft SQL Server.
- bubs_exact.dbType: the type of the underlying database. For example, ‘Oracle’ for an Oracle RDBMS and ‘MSSQLServer’ for Microsoft SQL Server.
- bubs_exact.url: de JDBC URL used to build the connection with. For Oracle RDBMS it has the format ‘jdbc:oracle:thin:@’, followed by the name or address of the server, the sign ‘:’, the port to which the database listener listens to (often 1521), again the sign ‘:’ and finally the name of the instance. An example is ‘jdbc:oracle:think:@localhost:1521:ORCL’. For Microsoft SQL Server this has the format 'jdbc:microsoft:sqlserver://', followed by the name or address of the server, the sign ':' and the gate to which the database listener listens to (often1433). An example is ‘jdbc:microsoft:sqlserver://localhost:1433’.
- bubs_exact.maxconn: the maximum number of simultaneous connections with the ERP database. This usually is around 20% of the maximum number of simultaneous users. More than 1 usually has no point, since the ERP interface can be processed no more than one time.
- bubs_exact.user: the user with which a connection is made. For instance ‘exact’.
- bubs_exact.password: the password of the user, as stored in ‘bubs_exact.user’.
- bubs_exact.timeout: the web application considers a user non-active after a while and logs him off. The value of ‘bubs_exact.timeout’ determines after how many seconds the user is automatically logged off.
- bubs_exact.fieldLeftDelim: the sign used to quote field names in database requests on the left. Always ‘"’ for Oracle and ‘[’ for Microsoft SQL Server.
- bubs_exact.fieldRightDelim: the sign used to quote field names in database requests on the right. Always ‘"’ for Oracle and ‘]’ for Microsoft SQL Server.
- bubs_exact.dateLeftDelim: the sign used to quote date constants in database requests on the left. Always‘"’.
- bubs_exact.dateRightDelim: he sign used to quote date constants in database requests on the right. Always‘"’.
- bubs_exact.dBNameUppercase: always ‘True’.
- bubs_exact.dateFormat: the used database format for dates, always ‘dd-MM-yyyy HH:mm’ for Oracle and ‘yyyy-MM-dd HH:mm:ss’ for Microsoft SQL Server.
- bubs_tomcat.booleanFormat: the used database format for fields containing a boolean flag (‘true’ or ‘false’). Always ‘Y;N’.
- bubs_exact.optimizeSql: always ‘True’.

1.11 Terminology

This chapter contains definitions for terms used within the application.

1.11.1 Invantive Estate

The program that monitors your budget per real estate development project and also creates a complete project file with the sale of real estate (houses, parking places, commercial real estate) and the costs where everyone in the organization benefits from.

1.11.2 Budget

The approved setup from expected costs and revenues with the objective to realize the project within these costs and revenues.

1.11.3 Budget Control

The locating and grouping of costs and revenues within the budget.

1.11.4 Contract

A planned or approved agreement between two parties. Every contract has a code or number. The number '0' can not be used as a number for a contract.

1.11.5 Exposé

The approved budget.

1.11.6 Invoice based on Purchase Order

Amount of an invoice, belonging to an order.

1.11.7 Invoice without Purchase Order

Amount of an invoice, that does not belong to an order.

1.11.8 User

Anyone who uses Invantive Estate.

1.11.9 User Interface

The way users can control the application.

1.11.10 Master Roll Up

Layout of roll ups with cost categories in a few main categories.

1.11.11 Cost Type

Detailed description which indicates the type of costs or revenues. Example: ‘Value Ground’.

1.11.12 Supplier

A supplier delivers goods or services in exchange for money. The name of the contractor is indicated here with a supplier.

1.11.13 Order

Amount of written or oral commitments.

1.11.14 Product group

Breakdown of the projects in themes. Often, the running of a project in a product group requires certain skills. That is why personnel is often active in the same product group.

1.11.15 Project Phase

Indicated the progress of the project. Example: ‘Acquisition’, ‘Development’, and ‘Realization’.

1.11.16 Show

Activation of a positive budget deviation in favor of project results.

1.11.17 Example Reading Method

Indicates in what way the value of a characteristich of a product or service can be read. Examples of a reading method are:

Mileage Map

Technician on site

Digitally received through the internet

Application manager system configuration

Not applicable

Reading methods can be edited in the screen Reading methods 211.

1.11.18 Example Payment Terms

A payment term is the agreed time period within which a bill should be paid. Examples of payment terms are:

Payment term code	Number of days
General purchasing	30
General sales	30
General empty	30

Payment terms can be edited in the screen Payment terms 215.

1.11.19 Example Payment Schedules

Pre-determined schedule with data concernng when payments will occur. Examples of a payment schedules are:

Code	Description
WB10	Housing construction 10 terms
WB07	Housing construction 7 terms
WBMW02	Overwork Housing construction 2 terms
GRND	Ground term
WB09	Housing construction 9 terms (no garage)
WB08	Housing construction 8 terms
WB06	Housing construction 6 terms

Payment schedules can be edited in the screen Payment schedules 184.

1.11.20 Example VAT

The taxes over the added value is indicated by the VAT. This is also called turnover tax. Examples of VAT percentages are:

Description
0% VAT
6% VAT
19% VAT
0% VAT Abroad
Normal (19%)

VAT codes and descriptions can be edited in the screen VAT codes 183.

1.11.21 Example Classifications

A classification is a label that is linked to a project, a process, an organization, a person, or a document. The label provides additional information about the file to which it is attached and makes in this way a keyword based classification and indexing possible. With labels you can find your desired information more efficient. Examples of classifications are:

code	Description
Profession	Professions

Profession.Auditor	Auditor
Profession.Account manager	Account manager
Profession.Administrative assistant	Administrative assistant
Profession.Advisor/consultant	Advisor/consultant
Profession.Civil servant	Civil servant
Profession.Pharmacy assistant	Pharmacy assistant
Profession.Application developer	Application developer
Profession.Architectural designer	Architectural designer
Profession.Insurance advisor	Insurance advisor
Profession.Company manager	Company manager
Profession.Visual writer	Visual writer
Profession.Sculptor	Sculptor
Profession.Investment advisor	Investment advisor
Profession.Policy advisor	Policy advisor
Profession.Public administrator	Public administrator
Profession.Security guard	Security guard
Profession.Driver	Driver
Profession.Commercial employee	Commercial employee
Profession.Communication manager	Communication manager
Profession.Communication employee	Communication employee
Profession.Controller	Controller
Profession.Copywriter	Copywriter
Profession.Dance teacher	Dance teacher
Profession.Dancer	Dancer
Profession.Defense	Defense
Profession.Detective	Detective
Profession.Veterinary assistant	Veterinary assistant
Profession.Dietician	Dietician
Profession.Excecutive secretary	Executive secretary
Profession.Technical writer	Technical writer
Profession.Physician assistant	Physician assistant
Profession.Drugstore	Drugstore
Profession.Goldsmith	Goldsmith
Profession.Facility manager	Facility manager
Profession.Film and television producer	Film and television producer
Profession.Photographer	Photographer
Profession.Photographer/Reportage photographer	Photographer/Reportage photographer
Profession.Physiotherapist	Physiotherapist
Profession.Goldsmith/Silversmith	Goldsmith/Silversmith
Profession.Graphic designer	Graphic designer
Profession.Helping welfare	Helping welfare
Profession.Illustrator	Illustrator
Profession.Industrial designer (higher professional)	Industrial designer (higher professional)
Profession.Industrial designer (university education)	Industrial designer (university education)
Profession.Information manager	Information manager
Profession.Information specialist	Information specialist
Profession.Buyer	Buyer
Profession.Intermediary	Intermediary
Profession.Journalist	Journalist
Profession.Hairdresser	Hairdresser

Profession.Ceramic designer	Ceramic designer
Profession.Cabaret	Cabaret
Profession.RMA officer	RMA officer
Profession.Maternity nurse	Maternity nurse
Profession.Art historian	Art historian
Profession.Painter	Painter
Profession.Teacher	Teacher
Profession.Warehouse employee	Warehouse employee
Profession.Broker	Broker
Profession.Management assistant	Management assistent
Profession.Marketing manager	Marketing manager
Profession.Market researcher	Market researcher
Profession.Mime artist	Mime artist
Profession.Fashion consultant	Fashion consultant
Profession.Museologist	Museologist
Profession.Musician	Musician
Profession.Office manager	Office manager
Profession.Royal Army Officer	Royal Army Officer
Profession.Royal Navy Officer	Royal Navy Officer
Profession.Teaching assistant	Teaching assistant
Profession.Government manager	Government manager
Profession.Pedicure	Pedicure
Profession.Police officer	Police officer
Profession.Popmusician	Popmusician
Profession.PR employee	PR employee
Process	Process
Profession.Producer	
Profession.Product	Product deliverable
Product	Product
Product.Construction drawing	Construction drawing
Profession.Production leader Theater	Production leader Theater
Profession.Project leader	Project leader
Profession.Receptionist/telephonist	Receptionist/telephonist
Profession.Advertising designer	Advertising designer
Profession.Editor	Editor
Profession.Director	Director
Profession.Tour leader	Tour leader
Profession.Sales manager	Sales manager
Profession.Beautician	Beautician
Profession.Secretary	Secretary
Profession.Social cultural work (SCW)	Social cultural work (SCW)
Profession.Social service employee	Social service employee
Profession.Stewardess	Stewardess
Profession.Dentist	Dentist
Profession.Dental assistant	Dental assistant
Profession.Copywriter	Copywriter
Profession.Textile designer	Textile designer
Profession.Theater technician	Theater technician
Profession.Tourism employee	Tourism employee
Profession.Stage director	Stage director
Profession.Actor	Actor

Profession.Corporate trainer	Corporate trainer
Profession.Publisher	Publisher
Profession.Salesman	Salesman
Profession.Midwife	Midwife
Profession.Nurse	Nurse
Profession.Translator/Interpreter	Translator/Interpreter
Profession.Caretaker	Caretaker
Profession.Food industry technologist	Food industry technologist
Profession.Designer	Designer
Coverage	Coverage ratio
Coverage.Activate	Activate on balance
Coverage.P&L	Direct debiting
Coverage.Insurance	Covered by insurance
ERBO	ERBO
ERBO.01	Agriculture and fishing
ERBO.02	Mineral extraction
ERBO.03	Food industry
ERBO.04	Textile and leather
ERBO.05	Wood industry
ERBO.06	Building materials and glass industries
ERBO.07	Paper and cardboard industry
ERBO.08	Publishing and printing
ERBO.09	Chemical industry
ERBO.10	Base metal
ERBO.11	Metal products industry
ERBO.12	Machinery industry
ERBO.13	Electric devices
ERBO.14	Transport industry
ERBO.15	Other industry
ERBO.16	Construction industry
ERBO.17	Wholesale
ERBO.18	Retail food
ERBO.19	Retail non-food
ERBO.20	Retail car and motorcycle
ERBO.21	Catering
ERBO.22	Transport and communication
ERBO.23	Transport services
ERBO.24	Business consultants
ERBO.25	Automation Services
ERBO.26	Facility services
ERBO.27	Brokerage, o.g.
ERBO.28	Culture, recreation
ERBO.29	Personal services
Doc	Document
Doc.Legal	Legal classifications
Doc.Legal.Signed	Signed
Doc.Legal.Not Signed	Not signed
Doc.Type	Type
Doc.Type.Offer	Offer
Doc.Confidentiality	Confidentiality
Doc.Confidentiality.Public	Public

Doc.Confidentiality.Intern	Internal
Doc.Confidentiality.Customer	Customer
Financial	Financial
Financial.Balance	Balance
Financial.Annual Report	Annual report
Group	Business Groups
Group.Homes	Group Homes
KPI	Key performance indicators
KPI.Budget	Budget indicators
KPI.Risk	Risk indicators
KPI.Risk.Margin	KPI Risk Margin
KPI.Risk.Scope creep	KPI Risk Scope creep
KPI.Risk.Staffing	KPI Risk Staffing
Margin	Margin customer
Margin.Repel	Margin: repel
Margin.Maintain	Margin: maintain
Region	Regions
Region.Middle	Region Middle
Region.Middle.UTR	Region Middle Utrecht
Region.North	Region North
Region.West	Region West
Region.South	Region South

Classifications can be edited in the screen Classifications 195.

1.11.22 Example Participation Roles

Persons participating in a project could have multiple roles assigned. The same role can be assigned to several people. Examples of participation roles are:

Participation Role Code	Participation Role Limit	Participation Role Description
Task Owner	0	Task Owner
Task Reporter	0	Task Reporter
Task Increaser	0	Task Increaser
Task Modifier	0	Task Modifier
Task Hour Writer	0	Task Hour Writer
Project Increaser	0	Project Increaser
Project Modifier	0	Project Modifier
Project Hour Writer	0	Project Hour Writer
Project Filler	0	Project Filler
Project developer	0	Project developer
Project Product Group Director	0	Project Product Group Director
Project Controller	0	Project Controller
Project Administrator	0	Project Administrator
Project Approver Hours	0	Project Approver Hours
Project Plan Developer	0	Project Plan Developer
Task E-mail Receiver	0	Task E-mail Receiver
Project E-mail Receiver	0	Project E-mail Receiver
Project E-mail Sender	0	Project E-mail Sender
Project E-mail Copy	0	Project E-mail Copy

Project E-mail Bcc	0	Project E-mail Bcc
Task E-mail Sender	0	Task E-mail Sender
Task E-mail Copy	0	Task E-mail Copy
Appr. Assign. Std PO	10000	Approving Assignment standard process PO
Appr. Assign. Std Dir.	100000	Approving Assignment standard process Director
Document Author	0	Document Author
Document Reviewer	0	Document Reviewer
Document Target Group	0	Document Target Group
Document E-mail Receiver	0	Document E-mail Receiver
Document E-mail Sender	0	Document E-mail Sender
Document E-mail Copy	0	Document E-mail Copy
Document E-mail Bcc	0	Document E-mail Bcc
Organization Employee	0	Organization Employee
Organization. Prim CP	0	Organization Prim CP
Organization-purchasing CP	0	Organization-purchasing CP
Organization Preferred Mechanic CP	0	Organization Preferred Mechanic CP
Organization Preferred Mechanic	0	Organization Preferred Mechanic
Organization Preferred Mechanic 1	0	Organization Preferred Mechanic 1
Organization Preferred Mechanic 2	0	Organization Preferred Mechanic 2

Participation roles can be edited in the screen Participation roles 200.

1.11.23 Example Document Types

Indicates the document type. Examples of document types are:

Document Types	Document type description
Acc	Acceptation document
CP	Control plan
Invoice received	Incoming invoice
Outgoing invoice	Outgoing invoice
Offer	Offer of a commercial nature
Confirmation of Order	Confirmation of Order
PP	Project plan
Report	Report
Standard	Standard
Drawing	Drawing
Progress report	Progress report

Document types can be edited in the screen Document types 194.

1.11.24 Example Document Statuses

Examples of document statuses are:

Document Status	Document status description
Comments	Collecting of comments
Concept	Concept
Outdated	Outdated version, no longer applicable
Definitive	Definitive version

Document statuses can be edited in the screen Document statuses 194.

1.11.25 Example Economic Indexes

Economic indexes measure the state of the economy (the general economic situation) or of a part of the economy. Examples of economic indexes are:

Index name	Index abbreviation
Amsterdam Stock Exchange	AEX
ING Group	NL0000303600

Economic indexes can be edited in the screen Economic Indexes 187.

1.11.26 Example Property

A property or characteristic is a phenomenon typical to a certain person, object or company. Examples of properties are:

Code	Description
#CPUs	Number of processors
#A4 BW	Number of A4 prints black/white
#A4 Color	Number of A4 prints color
#A3 BW	Number of A3 prints black/white
#A3 Color	Number of A3 prints color
#Memory	Size of physical memory (Mb)
#Storage	Volume storage memory on disk (Gb)
#Floors	Number of floors
#Rooms	Number of rooms
#Toilets	Number of toilets
GFA	Gross floor area according to NEN 2580 (m2)
RFA	Rentable floor area according to NEN 2580 (m2)
Gross capacity	Gross capacity according to NEN 2580 (m3)
Color	Color in free text format (standard free)
Cadastral known as	Cadastral code
Wage fittings	Are wage fittings applicable?
Version	Version code of the software
RAL	RAL Color
Material	Material (wood, filt, iron)
Energy label	Label that needs to be supplied along with the sale of inter alia cars, electric devices, lamps and buildings according to various European guidelines (92/75/CEE, 94/2/CE, 95/12/CE, 96/89/CE, 2003/66/CE).
RUBRIC	Rubric
SPACE	Space

Properties can be edited in the screen Properties 210.

1.11.27 Example Linked Financial Administrations

Examples of linked financial administrations are:

Code	Description
900	Administration Janssen BV
901	Administration Hoogmans BV

902	Administration van Delft BV
903	Administration Lieropszn BV
904	Administration Combination with Hoogmans BV

Linked financial administrations can be edited in the screen Linked Financial Administrations 248.

1.11.28 Example Ground Statuses

A ground status describes the state of the land required for the realization of the project such as "Private land" or "Ready to be developed". Examples of ground statuses are:

Ground status code	Ground status description
Unknown	Situation unknown.
None	Not incorporated in structure vision; farming ground.
Structure vision	Incorporated in structure vision.
Zoning plan	Incorporated in approved zoning plan.
Provisional construction permit	Construction permit granted provisionally.
Construction permit	Irrevocable construction permit granted.
Private land	Private land
Ready for construction	Ready for construction

Ground statuses can be edited in the screen Ground statuses 165.

1.11.29 Example General Ledger Account Code

A general ledger account is a collection of equal expenditure or revenue items. The general ledger is the collection of all general ledger accounts. All general ledger accounts together are called the general ledger or general ledger chart of accounts. Every general ledger account is of the type balance sheet account or of the type rsults account.

Examples of general ledger account codes are:

General ledger account code	General ledger account code description
0600	Reorganization facility
0700	Equity / Share Capital
0770	Undivided result
0799	General reserve
0800	Revaluation
0930	Mortgage loans
0940	Long-term credits
0950	Medium credits
0990	Other debts
1290	Cross posting liquid assets
1504	Required to pay VAT high
1510	Required to pay VAT low
1511	Required to pay VAT delivery outside EU (import)
1512	Required to pay VAT acquisition of goods within EU
1513	VAT private use
1514	Pre-print Turnover Tax
	Creditors
1700	Required to pay income tax
1710	Required to pay Net wage
1732	Accrued payroll taxes
1740	Required to pay social security contributions employee

1741	Required to pay other employee premiums
1745	Required to pay social security contributions employer
1746	Required to pay other employer contributions
1770	Required to pay reservation 13th month
1771	Reservation employers' costs 13th month
	Accrued vacation reservation
1900	Costs still to pay
	Prepaid expenses
1935	Turnover to be invoiced
	VPB current fiscal year
1955	VPB previous years
2100	Accrued expenses
	Bill advances opening balance
0100	Company inventory
0110	Research and development
0120	Formation expenses
0130	Concessions and permits
0140	Intellectual property
0190	Other immaterial fixed assets
0200	Ground
0300	Renovations
0310	Depreciation buildings
0400	Guarantee
0420	Transport and means of transportation
0430	Depreciation transport and means of transportation
0450	Depreciation company inventory
0490	Other material fixed assets
0495	Depreciation other immaterial fixed assets
0500	Participations
0550	Goodwill
1000	Cash
1100	Rabobank 1234.56.789
1300	Debtors
1310	Debtors preceding year
1400	RC DGA
1540	To pay/ receive Turnover tax
1715	Bill advances personnel
1930	Amounts received in advance
	Cross posting
3000	Inventory trading goods
4100	Fuel
4110	Lease costs
4120	Maintenance & Repair
4140	Car insurance
4145	Fines
8000	Turnover domestic high rate
8001	Turnover Projects T & M 19%
8002	Turnover projects fixed price
8003	Turnover Linences
8010	Turnover domestic low rate
8011	Turnover Projects T & M 0 %

8012	Turnover abroad Fixed Price
8020	Turnover abroad zero rate
8100	Turnover abroad within the community
8110	Turnover abroad supplied outside the EU
8210	Finished product
8900	Other company revenues
9000	Extraordinary revenues
9130	Interest incomes
9140	Interest expenses
4000	Gross wages
4010	Contribution ZVW employer
4015	Received sick pay
4020	LB/PVV
4030	Reservation holiday money
4040	Travel expenses reimbursement
4060	Redundancy pay employer
4061	WIA (WAO/WGA) premium WG
4065	WW/AWF premium WG
4070	Temporary employees
4080	Courses
4081	Travel & accommodation costs Trainings/courses etc.
4090	Other personnel costs
4150	Other car costs
4200	Energy
4210	Rental
4250	Other housing costs
4251	Maintenance building
4260	Other management costs
4300	Advertising and promotional costs
4310	Promotion articles
4320	Representation costs
4330	Stock exchange costs
4340	Other sales expenses
4400	Subscriptions and membership fees
4430	Office supplies
	Postal charges
	Telephone and fax
4451	Telecom costs
4455	Specialism study & literature
4500	Accountancy Costs
4501	Depreciation Company Inventory
4502	Depreciation rebuilding costs
4505	Attorney fees
4520	Provision to pay commissions and the like
4540	Company insurances
	Other general costs
4610	Interest RC DGA
4630	Interest and costs bank
4650	Interest and costs taxes
4900	VPB
7000	Management fee costs

	Work thirds / temporary employee
7100	Purchasing costs
	Calculated car costs
9005	Inquiry account
9010	Extraordinary expenses
9150	Result corrections VAT declaration
9200	Calculation differences
9210	Payment differences
9300	Currency differences
9400	Sale discounts
	Purchase discounts

General ledger account codes can be edited in the screen General ledger account code 193.

1.11.30 Example Master Roll Ups Cost Type

Examples of common master roll ups of cost types for projects in property development are:

Main compaction code	Main compaction description
1000-1999	Purchase Costs
2000-2999	Contractor Sum
3000-3999	Services third party
4000-4999	Fixed and development costs
9300	Revenues
9900	Taken result

Master Roll Ups for cost types can be edited in the screen Master Roll Ups 191.

1.11.31 Example Cost Center

A cost center is for the need of the accountancy and the controlling defined unit within a company, to which costs and presentation can be attributed. A cost center usually turns into a department of a company. Examples of a cost center are:

Cost center code	Cost center description
SAL	Sales
MAN	Management
Tech	Technical service
Prod	Production

Cost centers can be edited in the screen Cost centers 192.

1.11.32 Example Cost Categories

Examples of common cost types for projects in property development are:

Cost type code	Cost Type Description
1000	Purchase Sum ground
1005	Land Costs; other
1010	Purchase Sum buildings
1011	Option Money puchase
1020	Purchase Sum other
1051	Costs financing
1052	Business burden
1053	Transfer Tax

1055	Benefit/moving contribution
1060	Notary Costs (purchase)
1065	Splitting and consolidation
1070	Make construction mature
1071	Measurement Costs
1072	Environmental research purchase
1073	Demolition Costs
1074	Landfill and disposal costs
1075	Archaeological research
1076	Move monuments
1077	Move cables and pipes
1080	Agency Costs (purchase)
1085	VAT
1090	Unexpected
1100	Historical costs
1190	Interest over historical costs
1960	Contribution third party
1970	Interest untill start build
1990	Internal Interest Costs
2100	Head of contractor
2101	Wage and material risk
2109	Unexpected contractor
2110	Contractor Sum E-installations
2111	Wage and material risk E-installations
2119	Unexpected E-installations
	Contractor Sum W-installations
2121	Wage and material risk W-installations
2129	Unexpected W-installations
2130	Contractor Sum housing construction
	Wage and material risk housing construction
2139	Unexpected housing construction
	Contractor Sum
2141	Wage and material risk contractor sum
2149	Unexpected contractor sum
	Contractor Sum site facility./infrastructure
2151	Wage and material risk site facility/infrastructure
	Unexpected site facility/infrastructure
	Conractor Sum decoration building
2161	Wage and material risk decoration building
2169	Unexpected decoration building
2170	Warranty institute
2190	Unexpected general contract sum
2200	Provisional sum general
2201	Provisional Sum pui
2202	Provisional Sum free 1
2203	Provisional Sum free 2
2204	Provisional Sum free 3
	Provisional Sum free 4
	Provisional Sum free 5
2210	Provisional Sum relocation costs/moving costs
2211	Provisional Sum expansion

2212	Provisional Sum shop separating walls
2213	Provisional Sum adjacencies
2214	Provisional Sum buyout sum
	Provisional Sum shopping
	Provisional Sum finishing work
2300	General
2400	Parking general
2401	Office Interior loge
2410	Configuration parking accommodation
2420	Communication systems
2430	Structural requirements serving parking installations
2440	Parking Guidance Systems
2450	Floors garage
2460	Roof garage
2470	Gates
2480	Upgrading garage
2490	Unexpected garage
2500	Sewer
2510	Electra
2520	Water
2530	Gas
2540	Cai
2550	City Heating
2590	Unexpected NUTS
	Installations general
2610	Lift
2620	Burglary Security
2630	Fire Alarm
	Sprinkler Installation/fire devices
2640	Central antenna system
2650	Waiste Container
	CV installation
2665	Air Ventilation
2670	Sound System
	Backlight
2681	Public Backlight
2682	Neon identifier
2683	Festive Lights
2684	Sun Protection
2690	Unexpected installation
2810	Paving
	Repaving
2820	Access
2821	Doors/gates/fences
2830	Plantation
2840	Landscaping/art
	Street Furniture
2860	Signage
2890	Unexpected paving
	Other construction costs
2910	Precariopoly during construction

2940	Bank guarantee
	Insurance CAR
2960	Calculated costs
2961	Price increase up to start construction
2990	Unexpected construction costs
3000	Honorarium general
3060	Honorarium RVM
	Honorarium architect
3110	Verschotten architect
	City builder
3180	Interior architect
3200	Honorarium PO
3210	Supervision PO
	Project Management
3230	Honorarium third party development.
3240	Construction Management
	Verschotten
3300	General research
3310	Construction research
3320	Constructional research
3330	Feasibility Study
3340	Traffic Safety
3350	Location Policy
3360	Land Survey/probes
3361	Environmental Research
3362	Noise Pollution Research
3370	Market Research
3380	Windtunnel research
3400	General advice
3420	Landscape Architect
	Civil Engineering advice
3500	Technical installation advice
3505	Costing advice (construction advice)
3510	Construction advice
3520	Constructional advice
3522	Advice tools
3524	Parking advice/traffic engineering, Advice
3530	Fire Safety advice
3540	Landscaping/art advice
3550	Acoustic advice
3555	Construction Physicsadvice
3560	Legal advice
3570	Tax advice
	Accountancy Costs
3580	Retail consultant
3590	Unexpected advice
3600	General costs
	Agency Costs sales
3630	Agency Costs rental
	Notary Costs (sales)
3710	Cleaning Costs commissioning

3720	Leges
3730	Pole Money
3800	General marketing
3805	Advertising costs
3810	Opening Costs
3815	Honorarium PR
3820	Brochure/documentation
	Advertisement/mailing
3840	Shopkeepers Association
	Audio presentation/maquette
3860	Promotion contribution
3870	Guarantee Fund
3880	Buyer's Guidance
3890	Unexpected marketing
3900	Unexpected exploitation
3910	Exploitation Costs
3920	Exploitation Revenues
3950	Calculated costs
3990	Interest costs internal
3991	Interest deposit sum
4000	Special development costs general
4010	Development fee third party
4100	Historical costs varia
4110	Plan Adjustment
4130	More Cost extra métrage
4150	Atmosphere Enhancing measures
4400	Rental Contribution
4500	Provision initial vacancy
	Rent Loss
4900	Cost-increasing VAT
4970	Phasing Costs
9301	Interest sales
9310	Revenues houses
9311	Interest revenues houses
9312	More Revenues houses
9320	Revenues shops
9321	Interest revenues shops
9322	More Revenues shops
9330	Revenues offices
9331	Interest revenues offices
9332	More Revenues offices
9340	Revenues special projects
9341	Interest revenues special projects
9342	More revenues special projects
9900	Taken result
9901	Corrections taken result

Cost Categories can be edited in the screen Cost Categories 189.

1.11.33 Example Warehouse

Inventories of products can be held in a warehouse. Examples of warehouses are:

Code	Description
HQ	Central w arehouse.
K 41-VVH-6	VW Transporter 1
K 03-VV-SZ	VW Transporter 2
K 24-TS-VS	Mini Cooper
Str. Huntec	Strip card Huntec
Str. Piet Klim	Strip card Piet Klim
Str. Holland Railconsult	Strip card Holland Railconsult
SLS	Sakes (uncertain if delivery is necessary)
N.a.	Not applicable
Banking	Bank products

Warehouses can be edited in the screen Warehouses 204.

1.11.34 Example Organization Relation Types

An organization relation type describes the relation type between two organizations. Examples of organization relation types are:

Relationship Type	Description from	Description to	Code reversed
Retains	Retains majority shares of	Majority shares in possession of	Ow ns a majority in
Supplier	Supplies to	Is supplied by	Organization
Competitor	Competitor of	Competes w ith	Competitor
Partial interest	Holds less than 50% of shares in	Minority interest held by	Ow ns minority in
Location	Establishment of	Has an establishment in	Establishment

Organization relation types can be edited in the screen Organization relation types 196.

1.11.35 Example Price Lists

A price list has - just likeMenus 224 - a tree structure, consisting of a set of prices for Units 151 and other price lists. Price lists can be built with other price lists. Examples of price lists for projects in the real estate development sector are:

Price list code	Price list description
General purchasing	General purchasing
General sales	General sales
General empty	General empty
Sales customer logistics	Only for customers in the logistics
Sale Koopman	Koopman specific prices
City	Prices construction units project City

Price lists can be edited in the screen Price lists 180.

1.11.36 Example Process Categories

A process category is a grouping of Processes 53. Examples of process categories are:

Code	Description
Query	Query
Failure	Failure
Change	Change Request
Complaint	Complaint
Project Meeting	Project Meeting
Wf IncInv	Workflow approving incoming invoice
Wf OutInv	Workflow approving outgoing invoice
OOS	Out-of-scope

NAB	Not a bug
PR	Problem Report
ER	Enhancement Request
Question	Question
PUR	Purchasing
Template	Template
Invoice	Invoice
N/A	N/A
M	Milestone
SUG	Suggestion for future work
Doc	User's documentation
UNK	Unknown, not classified yet
Process	Process-related (meetings etc)
SLS	Sales
Fix	Fix
Wf Leave	Request for leave
Sales real estate	Sale process real estate

Process categories can be edited in the screen Process categories 169.

1.11.37 Example Process Provenances

A process provenance is a grouping of Processes 53 on the basis of provenance. Examples of process provenances are:

Code	Description
Owner	Owner
Relationship	Relationship of owner or user
User	User
Local resident	Local resident
City	City
Customer	Customer
IncInv	Incoming invoice
OutInv	Outgoing invoice
Dev	Development

Process provenances can be edited in the screen Process provenances 170.

1.11.38 Example Process Impact

A process impact is a grouping of Processes 53 on the basis of impact. The process impact often determined the priority in combination with the urgency. Examples of process impacts are:

Code	Description
Low	Completely usable.
Average	Limited use.
Grave	No longer usable.
N.a.	Not applicable

Process impacts can be edited in the screen Process impacts 170.

1.11.39 Example Process Note Categories

A process note category is a group of process notes (see processes 53). Examples of process note categories are:

Process Note Category	Process note category description
Audit	Audit
Various	Various other
Doc	User documentation
E-mail	E-mail
Fix	Fix request
Meeting	Personal meeting
Project group	Project goup consultation
Steering group	Steering group consulation
Telephone	Telephone conversation

Process note categories can be edited in the screen Process note categories 173.

1.11.40 Example Process Status

A process status describes the condition of a process. Examples of process statuses are:

Code	Description
Option excluding agreement to signing of the contract	Option excluding agreement to signing of the contract
Option including agreement to signing of the contract	Option including agreement to signing of the contract
Reservation	Reservation
Purchase contract signed	Purchase contract signed
Notarial transported	Notarial transported

Process statuses can be edited in the screen Process statuses 167.

1.11.41 Example Process Unit Status

The process unit status indicates the status of the units that are involved in the processing of the process. Examples of process units are:

Process unit status code	Description
Entered	Registered in the system, but not yet sold
Sold	Sold with a signed contract
Billable	Can be invoiced
Invoiced	Invoiced and supplied

Process unit statuses can be edited in the screen Process unit status 174.

1.11.42 Example Products

A product is everything that can be offered on the market to meet a demand. A product can therefore be a tangible good, like an article in a store, but it can also be a service. Examples of products are:

Product code	Description
Residence	Building designated for private residence.
Parking spot	Parking spot for 1 car.
Office	Independent office unit.
Shop	Independent store unit.
Overtime housing	Miscellaneous overtime housing construction

Overtime offices	Miscellaneous overtime offices

Products can be edited in the screen Products 208.

1.11.43 Example Product Group

Examples of common product groups for projects in property development are:

Product Group Code	Product Group Description
C	Shops
W	Houses
K	Offices
B	Area Development
S	Special projects
IN	Internal

Product Groups can be edited in the screen Product Groups 160.

1.11.44 Example Product Groups

Products that belong with each other. Examples of product groups are:

Code	Description	General Ledger Code	Payment Schedule	Sales Condition
Real Estate Companies	Real estate for companies	8000		Company Sales
Real estate Residence	Real estate focused on residences	8000	WB10	Consumer Sales

Product Groups can be edited in the screen Product Groups 207.

1.11.45 Example Project Phases

Projects can be divided into their current project phase. Examples of project phases are:

Project phase code	Project phase description
Planning	Planning
Acquisition	Acquisition
Development	Development
Realization	Realization
Wrapping up	Wrapping up (remainder)

Project phases can be edited in the screen Project phases 161.

1.11.46 Example Project Relation Types

A project relationship describes the relationship between two or more projects. Examples of project relation types are:

Relationship Type	Description from	Code Reversed	Description to	Container
Ground	Superficies at Ground	Ground at Superficies	Superficies	N
Successor	Succeeded by	Successor of	Precursor	N
Construction Management	Guided from	Construction management	Guided	N

Project relation types can be edited in the screen Project relation types 163.

1.11.47 Example Project Version Categories

A project version category is a tool to subdivide project versions 53 for, for example, various reports, such as ‘quarterly review’, ‘annual report’ and ‘prognosis 2011’. Examples of project version categories are:

Project Version Categorie	Description
Quarterly Review	Quarterly Review
Business plan	Business plan
Review	Monthly Review
Draft	Draft

Project version categories can be edited in the screen Project Version Categories 164.

1.11.48 Example Legal Form

The legal form of a company, enterprise or organization, is the legal form where the enterprise is cast. The legislation in each country determines which legal forms in the business as possible.

Examples of legal forms are:

Legal form code	Description
GmbH	Gesellschaft mit beschränkter Haftung
AG	Aktiengesellschaft
P	Particulier
EZ	Eenmanszaak
SV	Stille vennootschap
OV	Openbare vennootschap zonder rechtspersoonlijkheid
OVR	Openbare vennootschap met rechtspersoonlijkheid
CV	Commanditaire vennootschap zonder rechtspersoonlijkheid
CVR	Commanditaire vennootschap met rechtspersoonlijkheid
BV	Besloten vennootschap
NV	Naamloze vennootschap
STG	Stichting
COOP	Cooperatie
VER	Vereniging
OVERH	Overheid
BVBA	Besloten vennootschap met beperkte aansprakelijkheid
SA	Société Anonyme
LLC	Limited Liability Company
Corp.	Corporation
LP	Limited Partnership
LLP	Limited Liability Partnership
Ltd.	Private Limited Company

Legal forms can be edited in the screen Legal forms 197.

1.11.49 Example Interest Method

The interest method indicates in what way the interest is calculated. Examples of interest methods are:

Interest method code	Description
6% Interest360E	6% in accordance with 360 Europe Interest days per Year, 0 days interest free
6% Interest365	6% in accordance with 365 Interest days per year, 14 days interest free

6% Interest360N	6% in accordance with 360 NASD Interest days per Year (Excel), 0 days interest free
8% Penalty Interest360E	8% in accordance with 360 Europe Interest days per Year (penalty interest), 0 days interest free
8% Penalty Interest365	8% in accordance with 365 Interest days per year (penalty interest), 0 days interest free
8% Penalty Interest360N	8% in accordance with 360 NASD Interest days per Year (Excel) (penalty interest), 0 days interest free

Interest methods can be edited in the screen Interest methods 185.

1.11.50 Example Roles

A role is a function within an organization (for example 'Project Developer') that can be performed by a person. Rights can be assigned to this role using Role Authorizations 159 and subsequently this role can be assigned to users that ate going to perform this function with User Roles 158. Examples of roles are:

Role code	Description
Administration	Application management
Exploitation	Service and exploitation
FA	Finance
Development	Development Invantive products
PD	Project development
Public	Public

Roles can be edited in the screen Roles 158.

1.11.51 Example Counters

A counter can be used in additional business rules to calculate a sequence number. See Additional Business Rules 256. Examples of counters are:

Description	First value	Value increase	Cache size
Task number	1000	1	2

Counters can be edited in the screen Counters 257.

1.11.52 Example Timesheet Status

Examples of common timesheet statuses for hours in projects are:

Hour Status Code	description
Initial	Initial
Approved self	Approved by employee
Approved mgr	Approved by manager, billable
Invoiced	Invoiced and definitive
Planned	Planned

Timesheet Statuses can be edited in the screen Timesheet Statuses 186.

1.11.53 Example Skills

A skill is the ability to capably perform an act or solve a problem. Examples of skills are:

Skill code	Description
FN	Function
FN.SEUNX	System engineer UNIX
FN.SEWIN	System engineer Windows
FN.MCSE	Microsoft Certified System Engineer

FN.FC	Financial Controller
FN.FA	Financial Administrator
FN.FD	Financial Director
FN.MD	General Director
FN.PO	Project developer
FN.PM	Project Manager
CHAL	Physical challenges
CHAL.Glasses	Glasses needed
CHAL.Lost Left Leg	Lost left leg
CL	Computer languages
CL.Basic	Basic
CL.C	C
CL.C#	Microsoft .net C#
CL.C++	C++
CL.C#.v1	C# v1
EDU	Education
EDU.ANA	Illiterate
EDU.BS	Elementary School

Skills can be edited in the screen Skills 200.

1.11.54 Example Compactions

A roll up is a bundle of individual cost categories. Roll ups are used to combine financial information, which is registered per cost category, into a medium level, such as ‘Acquisition’, within projects. The financial information can also be requested on cost category, in case a less general division is required. The financial information can also be requested on master roll up level, in case a more general division is required. Examples of compactions are:

Code Compaction	Description Compaction	Master Roll Up
10	Ground costs	1000-1999
19	Contributions	1000-1999
21	Contractor Sum	2000-2999
22	Provisional sum	2000-2999
23	General	2000-2999
24	Parking accomomodation	2000-2999
25	Utility services	2000-2999
26	Installations	2000-2999
28	Environment	2000-2999
29	General construction costs	2000-2999
30	Honorarium third parties	3000-3999
31	Architect	3000-3999
32	Personnel	3000-3999
33	Research	3000-3999
34	Civil engineering	3000-3999
35	Advice costs	3000-3999
36	General costs	3000-3999
37	Various	3000-3999
38	Advertising	3000-3999
39	?	3000-3999
40	Special development costs	4000-4999
41	Historical costs	4000-4999
93	Revenues	9300

99	Taken result	9900
PLAN	Planned hours	PLAN

Compactions can be edited in the screen Compactions 190.

1.11.55 Example Work Schedules

A working schedule describes the hours contractual agreed upon for a labor agreement or the hiring of permanent and temporary personnel/staff. Examples of work schedules are:

Work schedule code	Work schedule description
40h	40 hours per week
32h wednesday free	32 hours per week, every wednesday free
16h mo+tu	16 hours per week, work every monday and tuesday
36h free every other week	36 hour per week, every second week friday free

Work schedules can be edited in the screen Work schedules 175.

1.11.56 Example Work Types

A labor type is a type of work that can be performed by an employee and that will be treated distinctively for invoicing or analysis. Examples of work types are:

Work type code	Work type description
Meeting	Meeting
Surveying	Surveying existing or future situation
Lighting plan	Lighting plan drawing
Furniture plan	Furniture plan drawing
Designing	Design drawing
Feasability	Feasability research

Work types can be edited in the screen Work types 177.

1.12 Versions

This chapter describes the changes in the application per version.

1.12.1 Release 2012 R2

Released: 14-12-2012 as 2012 release 2.

Invantive Producer: bXX.

Kettle: 4.4.0-stable

iReports: 4.8.0

Changes and bug fixes:

Number	Type	Product	Description
21282	PR	Achtergrondverwerking	Als een voorgaande job fout is gegaan en er geen uitvoerbestand is, dan gaat de nieuwe job ook fout.
18831	ER	Achtergrondverwerking	Extra velden in contract taak generatie en kunnen opnemen meer placeholders.
18546	ER	Achtergrondverwerking	Achtergrondproces helemaal alleen kunnen draaien op systeem.

Number	Type	Product	Description
19794	PR	Achtergrondverwerking	Fout in achtergrondprocessen. Deze komen met de status K. Opgelost door package aan te passen.
19497	PR	Achtergrondverwerking	Meervoudig vertalen tekst in berichten indien nodig.
20121	ER	Achtergrondverwerking	Vermijd ORA-31626 / ORA-31633 / ORA-00955 / SYS.DBMS_SYS_ERROR / SS.KUPV$FT bij export door elke export job een andere naam te geven.
20398	PR	Achtergrondverwerking	net.sourceforge.jtds.jdbc.Driver Unable to load driver for database connection pool.
20706	ER	Achtergrondverwerking	Automatisch gegenereerde emails kunnen vertragen met een instelbare tijd.
20909	PR	Achtergrondverwerking	Starten job blijft wachten op invoer parameters.
20096	ER	Control	Mogelijk maken registreren pending changes met AtRisk.
21355	PR	Control	Invantive Control: Rand verdwijnt als er geen rijen zijn
19928	PR	Composition	Veld Ice_comp_max_users kunnen bewerken in itgen_Ice_all.
19043	ER	Control	Sorteervolgorde optioneel kunnen aangeven in picklist in Invantive Control (buiten sorteer volgorde in view zelf).
12917	ER	Control	Functiebeveiliging.
19430	ER	Control	Grootte in bytes van extension tonen in Control bij grid Extensions.
19766	PR	Control	Excel Control raakt voor synchroniseren niet uit editmode van een cel.
17402	PR	Control	Registreren pending changes blijft hangen bij 20k: DisconnectedContext foutmelding in MDA
13092	PR	Control	System.InvalidOperationException: The Transaction object is not associated with the Connection object.
19411	ER	Control	DLL-s van extensies comprimeren voor bijvoorbeeld Control.
19537	ER	Control	Automatisch bepalen of een reporting view mogelijkheid tot toevoegen, bewerken, verwijderen heeft.
19501	PR	Control	Sessies Invantive Control worden gedeeld terwijl dit niet mag.
19548	PR	Control	Bij verwijderen nummer in Invantive Control wordt 0 terug gestuurd naar database i.p.v. null.
14240	ER	Control	Uitbreiden Publiceren Nieuw Model in Excel.
19494	PR	Control	Aanmeldscherm heeft geen labels afhankelijk van taal.
20886	PR	Control	Kan DLL-s niet gebruiken in rekenmodel en het rekenmodel wordt weer tig Mb in plaats van 200 Kb.
20965	PR	Control	Kan Waarderingsmodel niet publiceren naar nieuw model ivm resizen blokken en Excel tabellen.
18771	PR	Control	Rand verdwijnt als er geen feiten in de database staan.
20972	PR	Control	Publiceren naar nieuw model werkt niet voor gekoppelde blokken met feiten.
21366	PR	Control	Time-out waarderingsmodel vastgoedproject na 2 minuten.
21354	PR	Document	Kan document niet bewerken ondanks voldoende rechten.
19595	PR	ERP Gateways	Vertaalbaar maken bubs#exact% packages.
20502	ER	ERP Gateways	Extra velden in interfaces voor koppeling met Active Directory personenlijsten.
19228	PR	Exact Online	Vreemd adres in Exact Online, namelijk adres van Contact ipv relatie.
20966	PR	Kopersfacturatie	Kan na upgrade de onderdelen lijst niet meer muteren. Speelt in meer onderdelen van kopersfacturatie.
20742	ER	Kopersfacturatie	Kunnen filteren per projectentiteit.
19966	ER	Kopersfacturatie	Renteberekening volgens wens Ballast Nedam (KAO - Koopaannemingsovereenkomst).

Number	Type	Product	Description
19910	ER	Kopersfacturatie	Vasthouden aantal dagen rente methode al gebruikt zodat rente berekening ook over meerdere periodes kan.
19703	ER	Kopersfacturatie	Procesunit statusovergangen: geboekt vlag tonen voor Kopersfacturatie.
19861	PR	Kopersfacturatie	Proces status historie toont te veel informatie.
20069	ER	Kopersfacturatie	Naam betalingsschema toevoegen bij fout in bubs#tak_unt.split_for_payment_schedule.
20510	ER	Kopersfacturatie	Meer mogelijkheden om het contractnummer voor procesunits in de facturatie te genereren.
19960	ER	Kopersfacturatie	Bankgegevens voor factuurprint kopersfacturatie (BIC, naam bank).
20033	ER	Kopersfacturatie	Kunnen registreren kostenplaats en kostensoort op Artikel net zoals grootboek code voor boekingen. Optioneel op Unit. T.b.v. kopersfacturatie.
21307	PR	Kopersfacturatie	Zoeken naar project in kopersfacturatie toont leeg scherm.
21235	PR	Outlook	ORA-01461 bij sturen email.
21312	PR	Outlook	Prijslijstregels icoon bij Unit opvragen heeft witte achtergrond.
20636	ER	Outlook	Google like zoeken in applicaties.
21350	PR	Outlook	Ontstaan foutieve dll-s in distribute hoofdmap voorkomen.
21395	ER	Outlook	Performance tuning Summaries.
20658	ER	Outlook	Queries bij Outlook alleen afvuren als iemand ook echt met Outlook werkt.
21352	PR	Outlook	Performance uren synchronisatie verhogen.
20968	PR	Outlook	Profielopties error als je op Cancel drukt bij aanmelden op OLA.
20422	ER	Outlook, Control	Ook registreren van fouten in een Microsoft client in de database
17815	PR	Outlook, Web	Kan niet alle projecten zien in query.
20006	ER	Outlook, Web	Alle projecten zien rechten kunnen beperken tot specifieke rapportage groep.
19005	ER	Outlook, Web	Moeilijke standaard wachtwoorden voor system gebruiker.
19543	PR	Outlook, Web	Melding dalpre1099 Gebruiker niet gekoppeld al geven bij het aanmelden in plaats van bij database sessie maken.
2635	ER	Outlook, Web	Koppeling processen met kostensoort en contract.
8745	PR	Outlook, Web	ORA-07445 in build 40 door bug in Oracle's CLOB implementatie "klassificatie reeks".
17505	ER	Outlook, Web	Demo data uitbreiden t.b.v. automatisch testen software.
18916	ER	Outlook, Web	Mooier opmaken handboek.
18958	ER	Outlook, Web	Frans vertaling.
18762	ER	Outlook, Web	Veld Toelichting op tvd, gvd en vdd.
19454	ER	Outlook, Web	Veld Naam in Persoon wordt niet goed gevuld door aanvullende bedrijfsregel.
17529	ER	Outlook, Web	Datumformaat niet meer hard coderen.
18946	PR	Outlook, Web	Licentie staat het verlagen van het aantal gebruikte licenties toe.
20950	PR	Outlook, Web	Wijzigen/verwijderen uren: wordt niet gekeken naar rol voor onbeperkt wijzigen.
20594	ER	Outlook, Web	Nationaliteit van persoon kunnen registreren.
20596	ER	Outlook, Web	Registratie LDAP account bij persoon t.b.v. ontdubbeling.
20844	ER	Outlook, Web	Extra velden op proces, uur en procesunit om de verwachte eenheids verkoopprijs vast te kunnen leggen. Dient gevuld te worden door aanvullende bedrijfsregels.
19195	ER	Outlook, Web	Datatype van Gewicht bij organisatierelaties veranderen in decimal.
20476	ER	Outlook, Web	Langer slapen als aanmelden niet lukt om zodoende hackpogingen te frustreren.
20504	ER	Outlook, Web	Voor kopersfacturatie extra mijlpalen toevoegen aan verkoopkans t.b.v. notariele akte.
18614	ER	Outlook, Web	Vasthouden toelichting en eerste/laatste ervaring bij persoonlijke vaardigheden.
19866	ER	Outlook, Web	Icoontje voor procesnotitie categorie.
20018	ER	Outlook, Web	Vasthouden wanneer een concept factuurregel voor het laatst geexporteerd e/o geaccepteerd is.
20312	ER	Outlook, Web	Veld Auteur kunnen opgeven en wijzigen bij Procesnotitie in web en OLA.
20470	ER	Outlook, Web	RSS adres voor personen en organisaties.
20708	PR	Outlook, Web	Uitschakelen dat je documenten kunt muteren bij gesloten processen e/o projecten.

Number	Type	Product	Description
20709	PR	Outlook, Web	Je kunt de projectcode wijzigen van een proces dat afgesloten is.
20228	ER	Outlook, Web	Auteur op Procesnotities t.b.v. dashboarding.
20255	ER	Outlook, Web	Persoon - persoon relaties.
17568	ER	Outlook, Web	Scherm conceptfactuurregels uitbreiden met nieuwe velden voor Kopersfacturatie vastgoed.
20903	PR	Outlook	12345 invoeren cursor verschuift in Invantive for Outlook.
20503	ER	Outlook	Icoontjes in summary scherm bij telefoon, website e.d.
20511	ER	Outlook	Extra kader om pasfoto en organisatie plaatjes in detailscherm.
20249	ER	Outlook	Object Reference not set to an instance of an object in UnitEigenschapwaarden Toevoegen.
17137	ER	Outlook	Maatwerk rapporten ook vanuit Outlook kunnen opvragen, zowel algemeen als vanuit specifieke schermen zoals Projecten en Projectbudgetten.
19404	PR	Outlook	Project Bewerken scherm volgorde velden anders dan web versie.
19418	ER	Outlook	Mooiere foutmelding als plaatje ophalen niet lukt uit nieuwsstream.
19456	PR	Outlook	Unit Eigenschapwaarden Bewerken geeft Artikeleigenschap fouten.
17177	ER	Outlook	Kunnen zoeken op betrokkenheid bij een proces.
17245	ER	Outlook	In plan scherm rekening houden met vaardigheden van persoon en benodigde vaardigheden
18181	ER	Outlook	Icoons in de menubalk van Vision/Estate.
18192	ER	Outlook	Mogelijk maken om ContractBudget en ContractTaakGeneratie te bewerken via Toolstrips.
18399	ER	Outlook	Vanuit Projectenoverzicht - Openen Kasstroomprojectie met Details en Dagdetails.
18492	ER	Outlook	Kunnen zoeken ook op categorie bij Recente Items.
18620	PR	Outlook	Picklists moeten in het Nederlands, nu Engels.
19292	ER	Outlook	Generaliseren DropDown menu's bij toevoeg menu's.
19508	ER	Outlook	Op Organisatie kunnen zoeken ook bij betrokkenheden.
19520	ER	Outlook	Tonen label van procesunitstatus in scherm procesunit statusovergangen.
18254	PR	Outlook	Bij verwerken document archiveren met zelfde naam en tijdstip ORA-00001 fout
18482	PR	Outlook	Vertalingen OLA Configuratiescherm worden niet geladen bij installatie.
18950	PR	Outlook	Vroegtijdig afbreken error: ORA-20163: The module 'InvantiveÂ® Control (20121.0.205.2937 COD)' has not been certified for use with this version of Invantive Producer. Please contact your system administrator.
19034	PR	Outlook	Openen van één document, zorgt dat alle documenten in grid geopend worden
19500	PR	Outlook	Aanmaken niet Organisatie. Selecteren verkoopvoorwaarden laat nu inkoopvoorwaarden zien.
19544	PR	Outlook	Bij reply wordt originele mail overschreven --> niet gewenst.
19580	PR	Outlook	Outlook neemt veel geheugen in gebruik en geeft foutmelding: Parameter is not valid.
19936	PR	Outlook	Grote knoppen zoals "Assign association" werken niet meer bij mail
19488	PR	Outlook	Verkeerde picklist op Projectfase: laat ook ongeldige vervolgstatussen zien.
19636	PR	Outlook	Archiveren als document geeft bij zoeken naar Herkomst foutmelding en vervolgens leeg zoekscherm
10285	ER	Outlook	Meten prestaties netwerk verbinding met database.
20656	ER	Outlook	Autorisatie op mail/note/kalender item wel of niet tonen Invantive functionaliteit.
20896	ER	Outlook	Grijze knoppen weghalen in OLA e.d. als iemand geen rechten heeft.
20907	PR	Outlook	Processen: Hij vult ook naam bij melder in als die persoon niet voorkomt bij Melders o.b.v. afzender email.
21251	ER	Outlook	Deepsearch en maxhits opgeven bij snel zoeken.
21278	PR	Outlook	Filter prijs component vertoont lege regels.
21310	PR	Outlook	Duidelijker melding als URL niet gedownload kan worden met plaatje.
20612	ER	Outlook, Web	Organisatievelden: DUNS (Dun & Bradstreet), Graydon en RSIN nummer t.b.v. makkelijker herkennen organisaties.
20614	ER	Outlook, Web	Bij klassificaties waardes en getallen kunnen registreren, bijvoorbeeld voor relatie naar meerdere ERP administraties of omzetcijfers per jaar.
20669	ER	Outlook, Web	Verplichten dat prijs opgegeven wordt voor bepaalde units bij gebruik op een proces t.b.v. generieke factuuritems.
20714	ER	Outlook, Web	Proxy voor kunnen verbinding naar Basware e.d.

Number	Type	Product	Description
20775	ER	Outlook, Web	Relatie tussen BTW code en grootboek kaart waar de boekingen op terecht zouden moeten komen (voor maatwerk accounting package integratie).
20776	ER	Outlook, Web	Per persoon kunnen registreren binnen welke kostenplaats hij valt.
20956	ER	Outlook, Web	Kopersfacturatie: datum start bouw + technische oplevering.
21285	PR	Outlook, Web	Heropenen gesloten processen niet mogelijk door takatr1329.
21287	PR	Outlook, Web	Gewenste starttijd wordt in het engels aangegeven in het scherm Achtergrondprocessen.
21288	PR	Outlook, Web	gbritg001: Kan Persoon Stefan de Vries niet vinden.
20772	ER	Producer	Toevoegen aantal vrije kolommen als parameter op applicatie (default is nu 10).
19663	ER	Producer	Taalonafhankelijk vlag bij vertalingen en glossary terms.
19718	ER	Producer	SearchBaseForm, SearchBase en SearchPanelBase maken voor vereenvoudiging zoekschermen.
20138	ER	Producer	Generatie screenshots en health checks schermen.
19852	ER	Producer	Ook additional where clause van eerste view element kunnen gebruiken.
18427	ER	Producer	Grids kunnen bewerken.
19651	PR	Producer	Bouwunits knoppen in Kopersfacturatie verversen niet altijd juist.
18370	ER	Producer	Vertaalbaar maken aanmeldschermen in C#.
18790	ER	Producer	Overstappen van exp op expdp. Exp niet meer ondersteund vanaf 11g R2.
19390	PR	Producer	Loading... wordt getoond i.p.v. de proces status lijst.
19251	PR	Producer	Tekst in rapporten worden niet bold geladen in Arial Unicode.
19005	ER	Producer	Moeilijke standaard wachtwoorden voor system gebruiker.
18590	ER	Producer	DetailsEditBase generiek maken.
18782	ER	Producer	Blog tonen bij aanmelden in OLA, ECA, QT, Studio, web.
18503	ER	Producer	Web service gateway werkend maken voor Autodesk Revit. Autodesk Revit is meer .net dan Microsoft Office producten.
18493	ER	Producer	Datamodel rapport uitbreiden met toegevoegde velden.
19057	ER	Producer	Omzetten bewerkschermen naar nieuwe DetailsEditBase
19836	ER	Producer	Afsplitsen schermen Outlook add-in schermen naar aparte assembly t.b.v. genereren schermen (verminderen afhankelijkheden Outlook)
19570	ER	Producer	Ondersteuning decimale scheider / groeps karakter.
19406	PR	Producer	Formaat van numerieke velden wordt niet goed weergegeven.
19421	ER	Producer	Disconnecten mogelijk maken, plus opruimen verbindingen.
19436	ER	Producer	Omzetten summary schermen naar nieuwe methode.
19437	ER	Producer	Nieuws (RSS) kunnen tonen in .net applicaties t.b.v. bruikbaarheid.
18445	ER	Producer	Summaries ombouwen naar summarybase.
20454	ER	Producer	Verbeteren cache mechanisme voor webservices.nl.
20163	ER	Producer	Uitfaseren Microsoft .net Oracle Data Provider voor ondersteuning XMLTYPE.
20589	ER	Producer	Hoofdletterongevoelig zoeken in eigen .net datalaag.
19388	PR	Producer	In .net framework gaat bepalen geselecteerde regel in tabel niet goed.
20745	ER	Producer	Verbindingscontrole voor snel verbinding opbouwen niet meer via ping maar via http om irrelevante firewall blokkering over te slaan.
20892	ER	Producer	Negatieve getallen overal kunnen invoeren - ook nodig voor kopersfacturatie.
20094	ER	Producer	Verwijderen 'verplichte' auditkolommen zorgt voor niet kunnen genereren .NET code.
20144	ER	Producer	XMLType ondersteuning door Invantive Producer
20952	PR	Producer	Na time-out (?) van webservice krijg je als je verder werkt in OLA een "Object reference not set to an instance of an object".
20252	ER	Producer	Help toevoegen aan Kopersfacturatie en andere add-ins op Invantive for Outlook.
21273	PR	Producer	PL/SQL: numerieke fout of fout in waarde : tekenstringbuffer is te klein in ITGEN_CACHE.
20973	ER	Producer	Slimmer bepalen te gebruiken instellingenbestand settings.xml.
20980	PR	Producer	Settings.xml wordt niet altijd gevonden in lokale cache als VPN down is.
19674	ER	Query Tool	QueryTool: Scherm maken voor vragen naar Bind variabelen zoals in andere pakketten.
19553	ER	Query Tool	In/uitschakelbare regelovergang.
20000	ER	Query Tool	Bestanden met query's kunnen openen in het DMS vanuit het Query Tool.
19332	PR	Query Tool	Processes Tabblad in zoekscherm genereert fout.
19694	ER	Query Tool	Oracle trace inbouwen in QueryTool.

Number	Type	Product	Description
17495	ER	Query Tool	Table selector in query tool.
20722	ER	Rapporten	PDF weergeven ook als er geen uitvoer is van een rapport.
18499	ER	Rapporten	Toevoegen functieparameters op alle rapporten.
19876	ER	Rapporten	Upgrade naar JasperReports 4.6.0.
20836	ER	Rapporten	Upgrade naar JasperReport 4.8.0.
19134	ER	Rapporten	Rapportparameters onderdrukken functieparameters op rapport pagina.
18678	ER	Rapporten	Controle methode voor parameters op functies.
20967	ER	Rapporten	Niet-nette opmaak errors bij opstarten rapport.
20322	PR	Studio	Juiste icoontje op executabele.
20323	ER	Studio	Invantive.Producer.Studio.exe kunnen starten vanaf de netwerkschijf z:, ook zonder caspolicy te gebruiken.
20329	ER	Studio	Licentiecheck faalt bij gebruik Studio. Error: itgen_not_logged_on. Workaround: aan einde on_logon_dotnet een lce_init. Maar moet beter, net zoals het al bij Query Tool werkt.
20330	ER	Studio	Icoontjes voor mappen in Studio.
19117	ER	Studio	Hernoemen velden voor Invantive Studio.
19498	ER	Studio	Vullen client_identifier vanuit *_session.bod voor analyse (o.a. webservice).
19622	ER	Studio	Glossaries definieren in Invantive Producer voor definities, woordenlijsten e.d.
19950	ER	Studio	Relaties genereren in .net voor genereren schermen.
20333	ER	Studio	Juist vullen middelste kolom.
20334	ER	Studio	Add en Delete knoppen.
20336	ER	Studio	Lijst velden in eigenschappendeel niet alfabetisch sorteren maar functioneel.
20445	ER	Studio	Plaatjes in meerdere resoluties toevoegen.
20078	ER	Twinfield	Koppeling Twinfield - Invantive.
21351	ER	Web	Ondersteuning Android browsers.
21426	PR	Web	Sluit icoontje werkt wel op IE 9 en Firefox, maar toont geen kruisje.
21368	PR	Web	Na aanklikken factuurregel is popup niet weg te krijgen.
20982	PR	Web	Annuleren knop in Zoeken en Opvoeren / Bewerken popup ipv er buiten klikken. Er buiten klikken mag niks meer doen.
20450	ER	Web	Ontwerpen icons voor Invantive Vision op iPad/iPhone.
18858	ER	Web	Zoeken via integers met een format (SEQ) werkt bij sommige locales niet.
19291	ER	Web	Tonen toelichting in scherm Rolautorisaties.
19890	ER	Web	Upgrade naar Premium Pack 2 van H&M.
20238	ER	Web	Transparantie in alle icoontjes.
20146	ER	Web	Upgrade CKEditor naar versie 3.6.4: controle op spelling, editor readonly kunnen maken vanuit custom javascript.
19365	PR	Web	Klikken op invantive logo om terug te gaan naar dashboard werkt niet meer.
19392	PR	Web	Velden Beginstatus Oud/Nieuw Eindstatus Oud/Nieuw geven fouten in scherm Projectfase Overgangen.
19393	PR	Web	Wis filter wist verkeerd in scherm Mijn Instellingen.
6810	PR	Web	Beperken mogelijke tekens in de bestandsnaam als je documenten upload via web frontend.
17356	PR	Web	Tekst valt buiten kader in Taken scherm
19302	PR	Web	Web: Paginering webfrontend neemt de op de pagina ingestelde rijen per pagina niet over, maar gebruikt alleen waarde uit sessie.
19305	PR	Web	Insert knop werkt niet op meerdere web forms
19848	PR	Web	Layout fouten in webschermen ftr_all en kps_all.
19462	PR	Web	Foumelding bij openen van scenario: ORA-01461: Kan een LONG-waarde allen binden voor het invoegen van een LONG-kolom
19492	PR	Web	In bubs_tus_all ontbreken verplichte velden tus_begin_status_vlag en tus_eind_status_vlag
19575	PR	Web	Kalender bij tijdreizen werkt niet.
20360	ER	Web	Scherm zoeken in het menu via de menubalk.
20361	ER	Web	Stylen nieuwe picklists.
20899	ER	Web	Projecten scherm: Performance picklist projectcluster directeur verhogen door er picklist van te maken.

Number	Type	Product	Description
20908	PR	Web	Openen msg bestand -> bestand krijgt extensie .do.
20975	ER	Web	AutoComplete picklist voor Facturen in bubs_ftr_all en bubs_frl_all.
20977	PR	Web	Kan niet twee keer zoeken gebruiken.
20988	PR	Web	Bij een aantal schermen werkt de crumbtrail niet (bijv. factuurregels en budgetten). De crumbtrail blijft leeg bij Google Chrome.
20893	PR	Web	Nieuwe web frontend werkt niet onder IE 9: je kunt geen zaken openen via de knoppen Nieuw/Zoeken.
21277	PR	Web	Scherm ERP-interface geeft error over niet gevonden elementen bubs_job_v1.
21320	PR	Web	Kan geen rolrechten opvoeren via het web voor Invantive Producer.
21630	PR	Webservice	Met tussenpauzen terugkomende HTTP 500 error bij gebruik webservice (onvoldoende fysiek geheugen in IIS server).
20870	ER	Web	Als je doorklikt via een ander scherm en de gezochte rij staat niet op de pagina, dan openen de details ook niet.
20963	PR	Outlook	Outlook: Als je in een process een related process toevoegt, dan springt het Process tab na opslaan weer naar voren en moet je opnieuw op Related Processes klikken.
20993	ER	Outlook, Web	Onderscheid maken t.b.v. usability in geslacht persoon bij no-image weergave.
21293	ER	Outlook	Bij Personen scherm ook tabs voor Processen als Proceshouder en Processen als Procesmelder.
21458	PR	Outlook	Kan bij zoeken geen getallen invoeren groter dan 1 mln.
21505	PR	Web	Kan DB max number velden niet opslaan in License (Invantive Producer).
21605	PR	Web	Kan geen bonnen met hardware op facturabel zetten.

Further:

New OLA screens.

Known major issues:

None.

Installation

- See Installation and Upgrade 508.

New Features

- Grant rights to the new screens / reports.
- Configure new profile options.

Specialties

- None.

1.12.2 Release 2013 R1

Released: 14-12-2012 as 2013 release 1.

Invantive Producer: bXX.

Kettle: 4.4.0-stable

iReports: 4.8.0

Changes and bug fixes:

Number	Type	Product	Description
21915	ER	Exact Online	In Exact Online het factuur email adres en per adres factuur verwerken, plus 35% volume reductie.
21916	ER	Exact Online, Reeleezee, Multivers	Kunnen opgeven patroon voor omschrijving op facturen uit Exact Online, Reeleezee en Multivers, bijvoorbeeld voor afdrukken factuurperiode.
22002	ER	Outlook	Meer dan 7.000 handles in Outlook na gebruik relaties bijwerken.
21599	PR	Outlook	Openen rapport werkt niet duidelijk vanuit Outlook. Foutmelding is te vaag.
17177	ER	Outlook	Zoeken op betrokkenheid.
17829	ER	Outlook	Stuur mail aan meerdere personen / organisaties.
21802	PR	Outlook	Organisatie- en ProjectDetails geven foutmelding m.b.t. databron conversie vanuit Documenten lijst.
21836	PR	Outlook	Als bubs-ola-mail-sjabloon-bij-verzenden aan staat, dan verdwijnen in 2012R2 soms de inhoud van de mail.
21876	ER	Outlook	Via 1 functie in bubs_functies_v kun je toegang geven tot Budgetaanvragen.
21878	ER	Outlook	Lijst projecten bij zoeken beperken tot alleen de open projecten.
21886	ER	Outlook	Als je bij Selecteer Project een projectcode opgeeft die niet in het filter zit, dan svp een waarschuwing geven. Nu weet de gebruiker niet wat hij fout doet.
22122	PR	Outlook	Personen grid verdwijnt.
22116	PR	Outlook	LOV bij documentclassificaties opent verkeerde scherm Organisaties ipv Documenten
22125	ER	Outlook	Veld Contract tonen bij Proces. Ook kunnen invullen.
22139	PR	Outlook	Alleen gebruiker invullen bij Nieuw processen als Houder als die gebruiker ook houder kan zijn.
20862	ER	Outlook	In scherm Projecten en Processen ook foto's van personen weergeven indien voorhanden.
22074	PR	Outlook	Licentie error van PDF visualizer als je previewt.
20614	ER	Outlook, Web	Bij klassificaties waardes en getallen kunnen registreren, bijvoorbeeld voor relatie naar meerdere ERP administraties of omzetcijfers per jaar.
21450	PR	Web	Opbrengstsoorten heeft geen Nieuw knop, ondanks rechten.
21487	PR	Web	Kan gebruiker niet toevoegen door "Kon rij om toe te voegen niet vinden."
21610	PR	Web	Procesdossier opvragen werkt niet door verkeerde URL bij iconen.
21486	PR	Web	Gemaakte en gefactureerde uren weer toevoegen aan OLA Proces en Web bubs_tak_all.
21608	PR	Web	ORA-20163 Kan functieparameter niet vinden als rapport geopend wordt terwijl er andere URL parameters opgegeven zijn in de webfrontend.
21490	PR	Web	Autocomplete picklist heeft namen met spaties op het einde. Daardoor werkt insert soms niet.
21582	PR	Web	Internal error! Can not find the element with ID null.
21591	PR	Web	Te lange bestandsnamen web frontend. Kan niet installeren sinds nieuwe frontend web.
21740	PR	Web	Wilt u de pagina verlaten en wijzigingen kwijtraken wordt onnodig vaak gevraagd.

Number	Type	Product	Description
20998	PR	Web	Alleen parameters tonen in web frontend die zichtbaar mogen zijn. In bubs_jpr_ins wordt hiermee al rekening gehouden.
21467	PR	Web	Invalid ID in lus variabele fout bij uitvoeren rapporten (agp, pot, uot en kpe).
21614	PR	Web	Nieuw knop niet zichtbaar (o.a. in bubs_sct_all); Controleren andere schermen.
7451	ER	Web	Logistieke module.
21908	PR	Web	Tijdreizen werkt niet.
21936	ER	Web	Relatie op project naar BTW code zodat je voor onderwijsinstellingen ook per klantproject kunt opgeven wel/niet alles factureren met BTW.
21937	ER	Web	Filiaal kunnen opgeven bij een persoon in aanvulling op kamernummer.
21978	ER	Web	Standaard filteren achtergrondprocessen op aanvrager = huidige gebruiker.
21980	ER	Web	Vertaalbaar maken seed zoals scripts.
22026	PR	Web	Getoonde klassificaties beperken tot degene die mogen op dit soort object.
22063	PR	Web	Standaard verkeerde ingangsdatum voor status op uren.
22078	ER	Web	Toevoegen knop bij Kasstroomprojecties.
22080	ER	Web	Workflow kunnen opgeven bij kasstroomprojecties.
20833	PR	Web	Vervangen dropdowns door Autocomplete Javascript
21473	PR	Web	Stuur metingen eindigde met gen-fetch-measurements niet aanwezig.

Installation

- No specialties.

Implementation

- No specialties.

2 Invantive Query Tool

With the Invantive Query Tool working with your data via SQL becomes easy. Invantive Producer makes it possible to edit a real-time data warehouse using SQL. Maintaining integrity and maintaining information security according to ISO 27002. The Invantive Query Tool is an addition to Invantive Producer and derived products such as Invantive Vision, Invantive Estate, Invantive Control and Invantive Composition.

With the Invantive Query Tool you can:

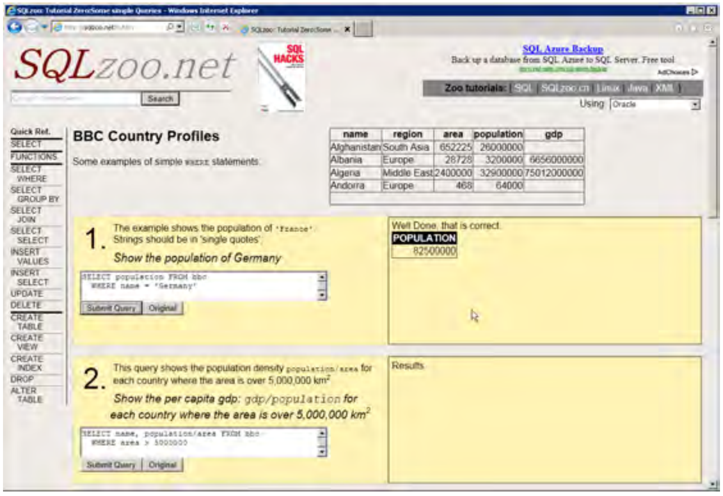
- Execute SQL-queries and request the results in a table.
- Immediately group, filter and sort the results in the table on the screen.
- Print the results or export them to Adobe PDF, Microsoft Excel or Microsoft XPS.
- Automate processes with assistance from Oracle PL/SQL (only in combination with Oracle RDBMS).
- Retrieve old queries from a file or from the list in the tab "History".

- Connect directly through a native connection for the concerned type database (for example Oracle SQL*Net for Oracle) or connect through the Invantive Webservice so that you do not have to install database-specific software on a work location.
- Supply the database user with a connection or connect to an already installed Invantive product with associated user codes.
- Retrieve the structure of a table or view.
- Request the output of dbms_output, itgen_output and itgen_log of an Oracle PL/SQL block (only in combination with Oracle RDBMS).
- Retrieve an execution plan ("query plan" or "explain plan") of an Oracle SQL query. (only in combination with Oracle RDBMS)
- Request the trajectory ("Oracle Trace") of a SQL statement (only in combination with Oracle RDBMS).

2.1 Learn SQL

More information on what SQL is and how it can be used can be found at: http://en.wikipedia.org/wiki/SQL.

The manual at http://sqlzoo.net also provides a good insight and in addition allows for interactive learning of how you can use SQL to retrieve, edit and create data.


SQLzoo.net
SQL HACKS
Search
SQL Azure Backup
Back up a database from SQL Azure to SQL Server. Free tool
AdChoices
Zoo tutorials: | SQL | SQLzoo.cn | Linux | Java | XML |
Using Oracle
Quick Ref.
SELECT
FUNCTIONS
SELECT WHERE
SELECT GROUP BY
SELECT JOIN
SELECT SELECT
INSERT VALUES
INSERT SELECT
UPDATE
DELETE
CREATE TABLE
CREATE VIEW
CREATE INDEX
DROP
ALTER TABLE
Submit Query
Original

BBC Country Profiles

Some examples of simple `WHERE` statements.

name	region	area	population	gdp
Afghanistan	South Asia	652225	26000000	
Albania	Europe	28728	3200000	6656000000
Algeria	Middle East	2400000	32900000	75012000000
Andorra	Europe	468	64000	

1. The example shows the population of `'France'`. Strings should be in 'single quotes'.

Show the population of Germany

```
SELECT population FROM bbc
  WHERE name = 'Germany'
```

Well Done, that is correct.

POPULATION
82500000

2. This query shows the population density `population/area` for each country where the area is over 5,000,000 km²

Show the per capita gdp: `gdp/population` *for each country where the area is over 5,000,000 km²*

```
SELECT name, population/area FROM bbc
  WHERE area > 5000000
```

Results

2.2 Functioning

This paragraph describes the functioning of the Query Tool.

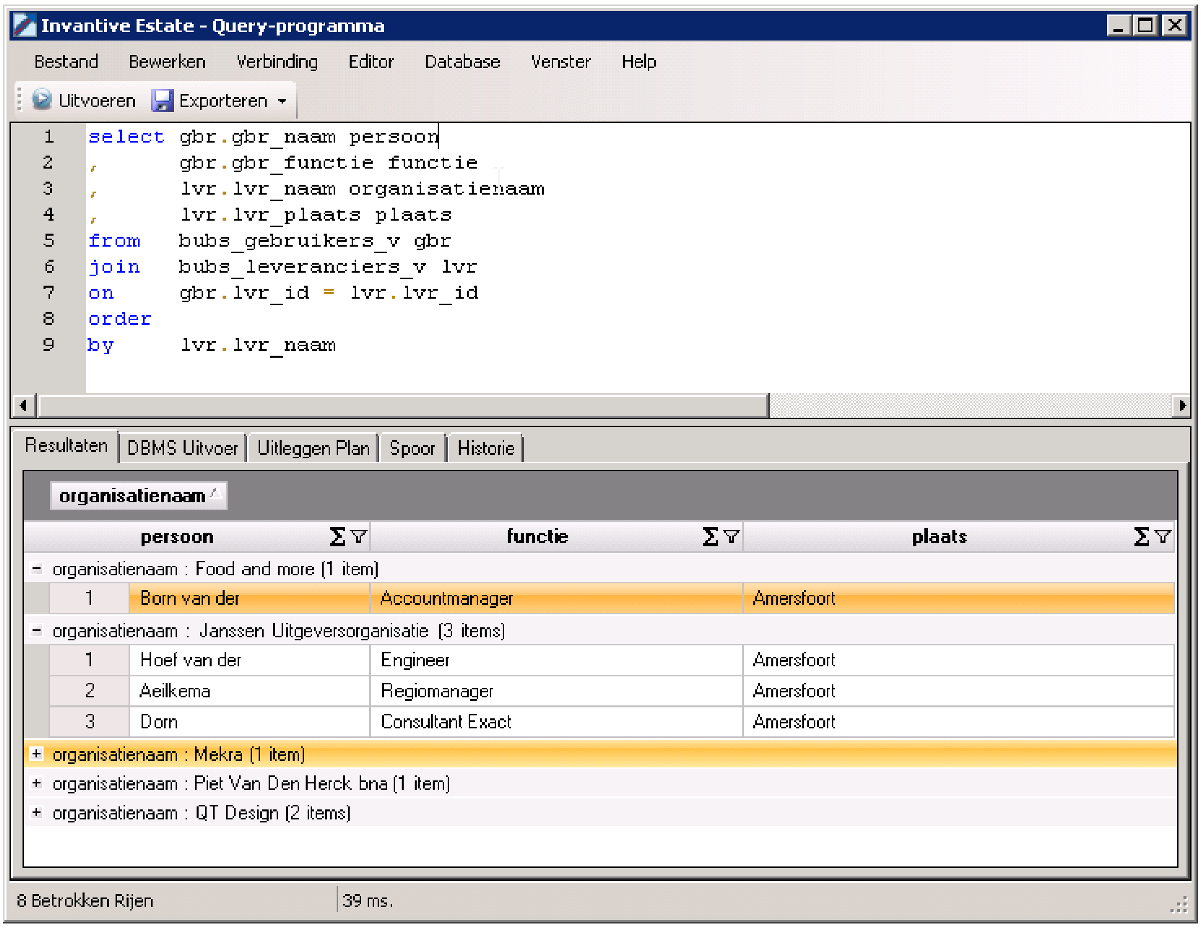
The Query Tool consists of two parts:

- The editor section.
- The output section.

In the following paragraph there are several examples of what you can do with the Invantive Query Tool:

2.2.1 Query Tool Examples

- The figure below shows the request by means of a SQL query, of persons grouped by organization.


Invantive Estate - Query-programma
Bestand
Bewerken
Verbinding
Editor
Database
Venster
Help
Uitvoeren
Exporteren
Resultaten
DBMS Uitvoer
Uitleggen Plan
Spoor
Historie

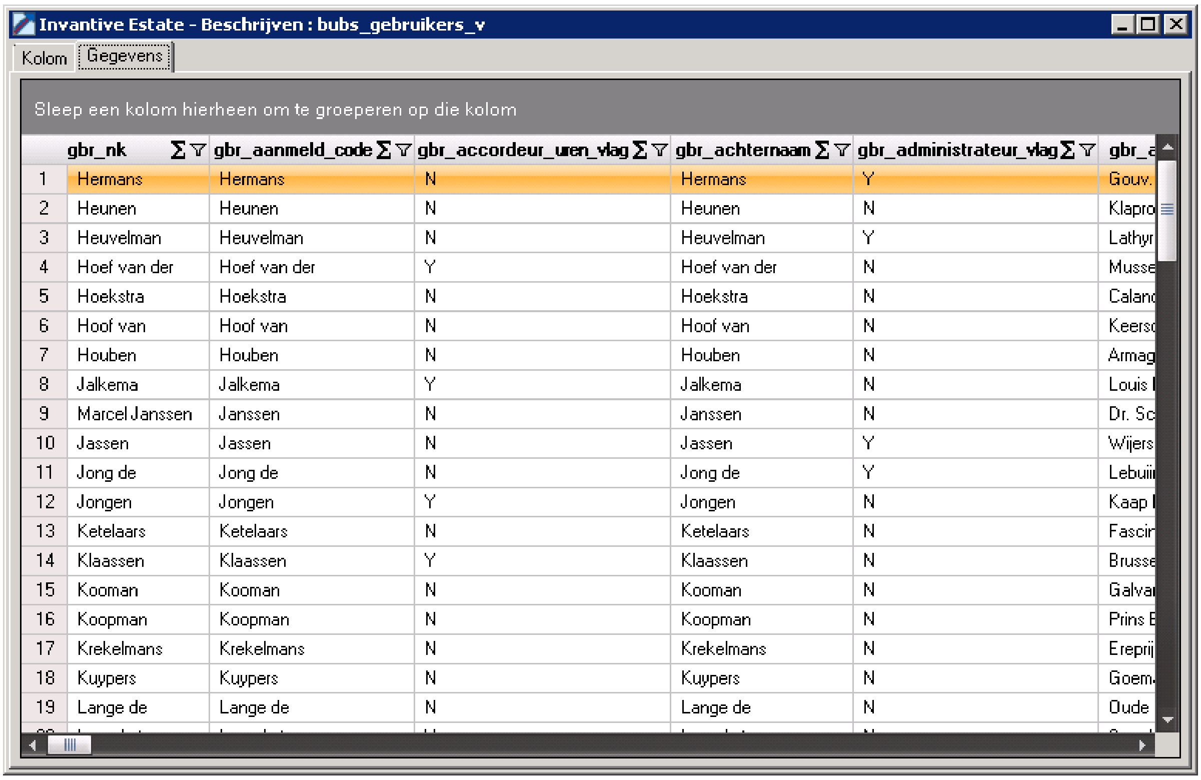
```
select gbr.gbr_naam persoon
,      gbr.gbr_functie functie
,      lvr.lvr_naam organisatienaam
,      lvr.lvr_plaats plaats
from   bubs_gebruikers_v gbr
join   bubs_leveranciers_v lvr
on     gbr.lvr_id = lvr.lvr_id
order
by     lvr.lvr_naam
```

organisatienaam

	persoon	functie	plaats
− organisatienaam : Food and more (1 item)			
1	Born van der	Accountmanager	Amersfoort
− organisatienaam : Janssen Uitgeversorganisatie (3 items)			
1	Hoef van der	Engineer	Amersfoort
2	Aeilkema	Regiomanager	Amersfoort
3	Dorn	Consultant Exact	Amersfoort
+ organisatienaam : Mekra (1 item)			
+ organisatienaam : Piet Van Den Herck bna (1 item)			
+ organisatienaam : QT Design (2 items)			

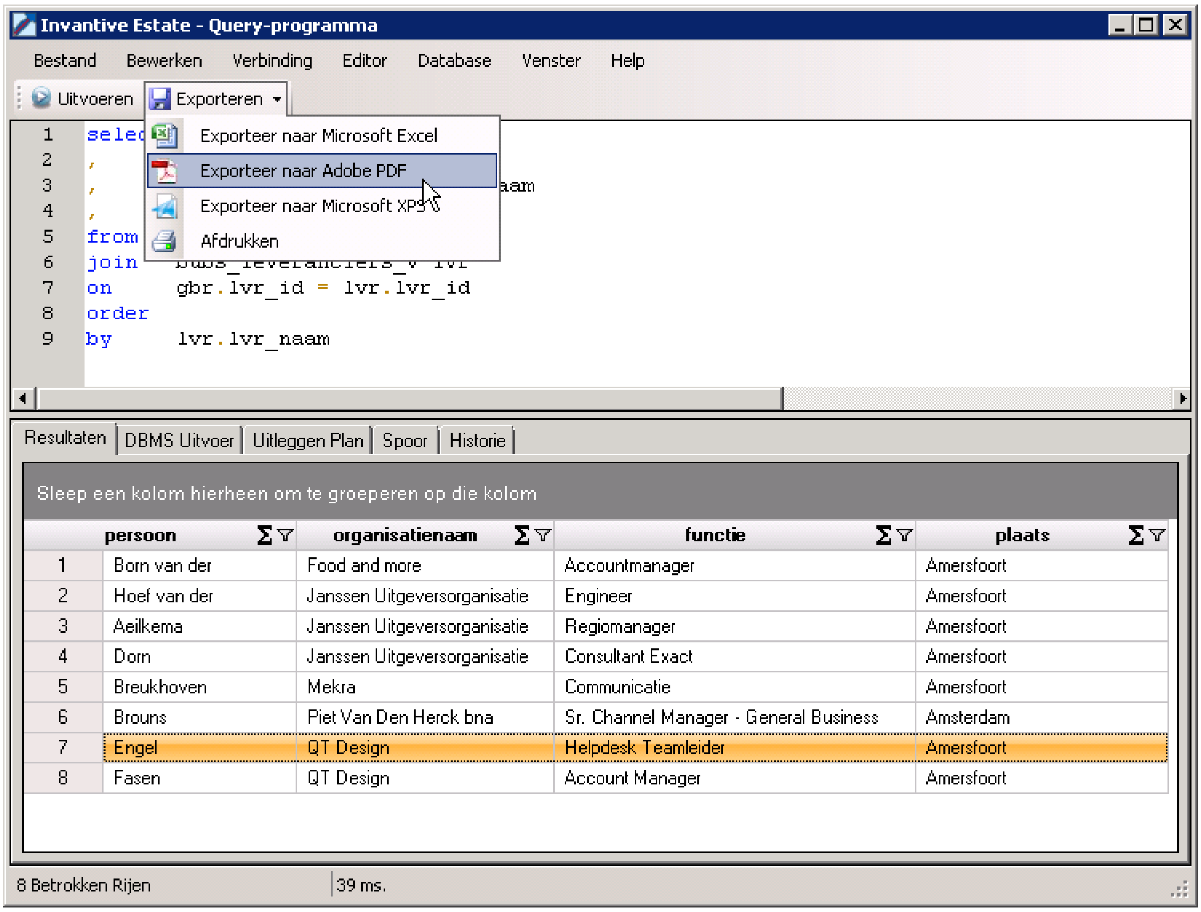
8 Betrokken Rijen | 39 ms.

- Displaying the description of an object (using the F4 key). This corresponds to the Oracle function 'Describe'. The figure below shows the data in the business object persons (bubs_gebruikers_v).


Invantive Estate - Beschrijven : bubs_gebruikers_v
Kolom
Gegevens
Sleep een kolom hierheen om te groeperen op die kolom

	gbr_nk	gbr_aanmeld_code	gbr_accordeur_uren_vlag	gbr_achternaam	gbr_administrateur_vlag	gbr_a
1	Hermans	Hermans	N	Hermans	Y	Gouv.
2	Heunen	Heunen	N	Heunen	N	Klapro
3	Heuvelman	Heuvelman	N	Heuvelman	Y	Lathyr
4	Hoef van der	Hoef van der	Y	Hoef van der	N	Musse
5	Hoekstra	Hoekstra	N	Hoekstra	N	Calanc
6	Hoof van	Hoof van	N	Hoof van	N	Keersc
7	Houben	Houben	N	Houben	N	Armag
8	Jalkema	Jalkema	Y	Jalkema	N	Louis
9	Marcel Janssen	Janssen	N	Janssen	N	Dr. Sc
10	Jassen	Jassen	N	Jassen	Y	Wijers
11	Jong de	Jong de	N	Jong de	Y	Lebuii
12	Jongen	Jongen	Y	Jongen	N	Kaap
13	Ketelaars	Ketelaars	N	Ketelaars	N	Fascir
14	Klaassen	Klaassen	Y	Klaassen	N	Brusse
15	Kooman	Kooman	N	Kooman	N	Galvar
16	Koopman	Koopman	N	Koopman	N	Prins E
17	Krekelmans	Krekelmans	N	Krekelmans	N	Ereprij
18	Kuypers	Kuypers	N	Kuypers	N	Goem
19	Lange de	Lange de	N	Lange de	N	Oude

- The result of the SQL query can be exported to Microsoft Excel, Adobe PDF, Microsoft XPS and can be printed on a printer.

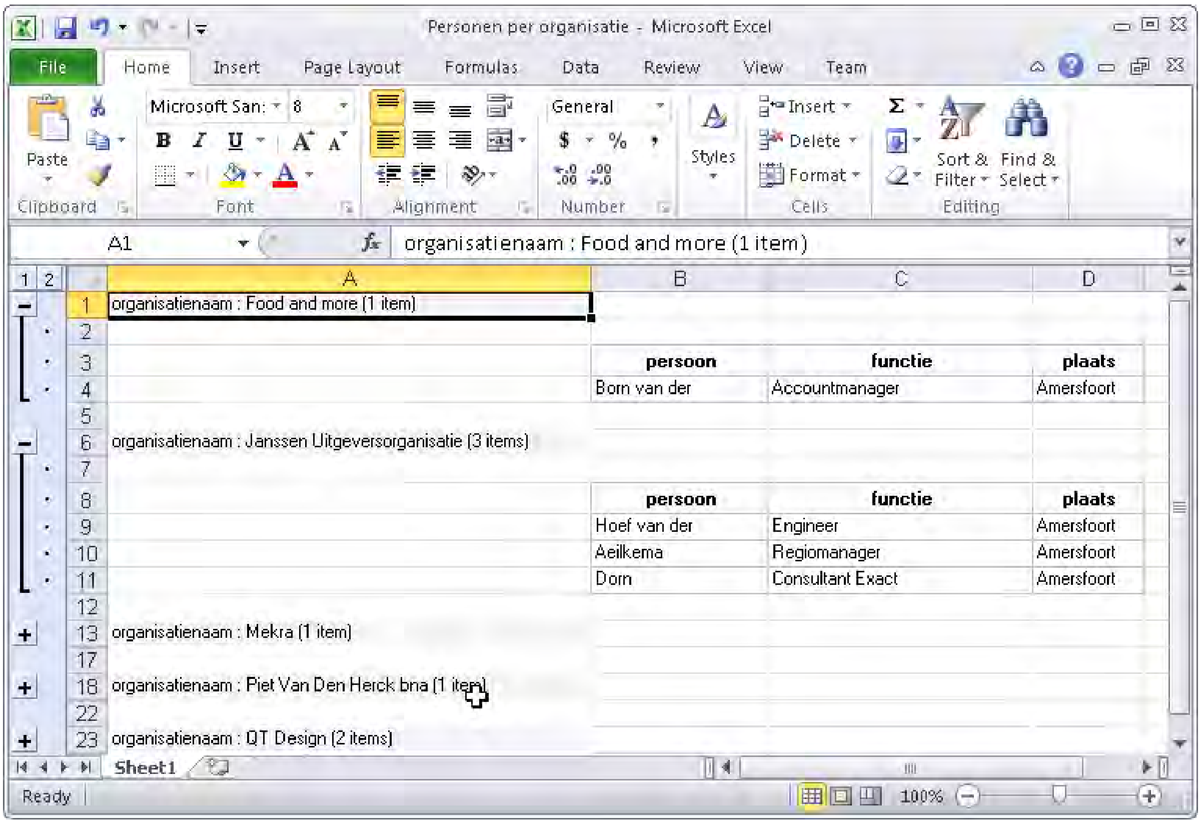

Invantive Estate - Query-programma
Bestand
Bewerken
Verbinding
Editor
Database
Venster
Help
Uitvoeren
Exporteren
Exporteer naar Microsoft Excel
Exporteer naar Adobe PDF
Exporteer naar Microsoft XPS
Afdrukken
Resultaten
DBMS Uitvoer
Uitleggen Plan
Spoor
Historie
Sleep een kolom hierheen om te groeperen op die kolom

```
selec
,
,                                  aam
,
from
join    bubs_leveranciers_v lvr
on      gbr.lvr_id = lvr.lvr_id
order
by      lvr.lvr_naam
```

	persoon	organisatienaam	functie	plaats
1	Born van der	Food and more	Accountmanager	Amersfoort
2	Hoef van der	Janssen Uitgeversorganisatie	Engineer	Amersfoort
3	Aeilkema	Janssen Uitgeversorganisatie	Regiomanager	Amersfoort
4	Dorn	Janssen Uitgeversorganisatie	Consultant Exact	Amersfoort
5	Breukhoven	Mekra	Communicatie	Amersfoort
6	Brouns	Piet Van Den Herck bna	Sr. Channel Manager - General Business	Amsterdam
7	Engel	QT Design	Helpdesk Teamleider	Amersfoort
8	Fasen	QT Design	Account Manager	Amersfoort

8 Betrokken Rijen | 39 ms.

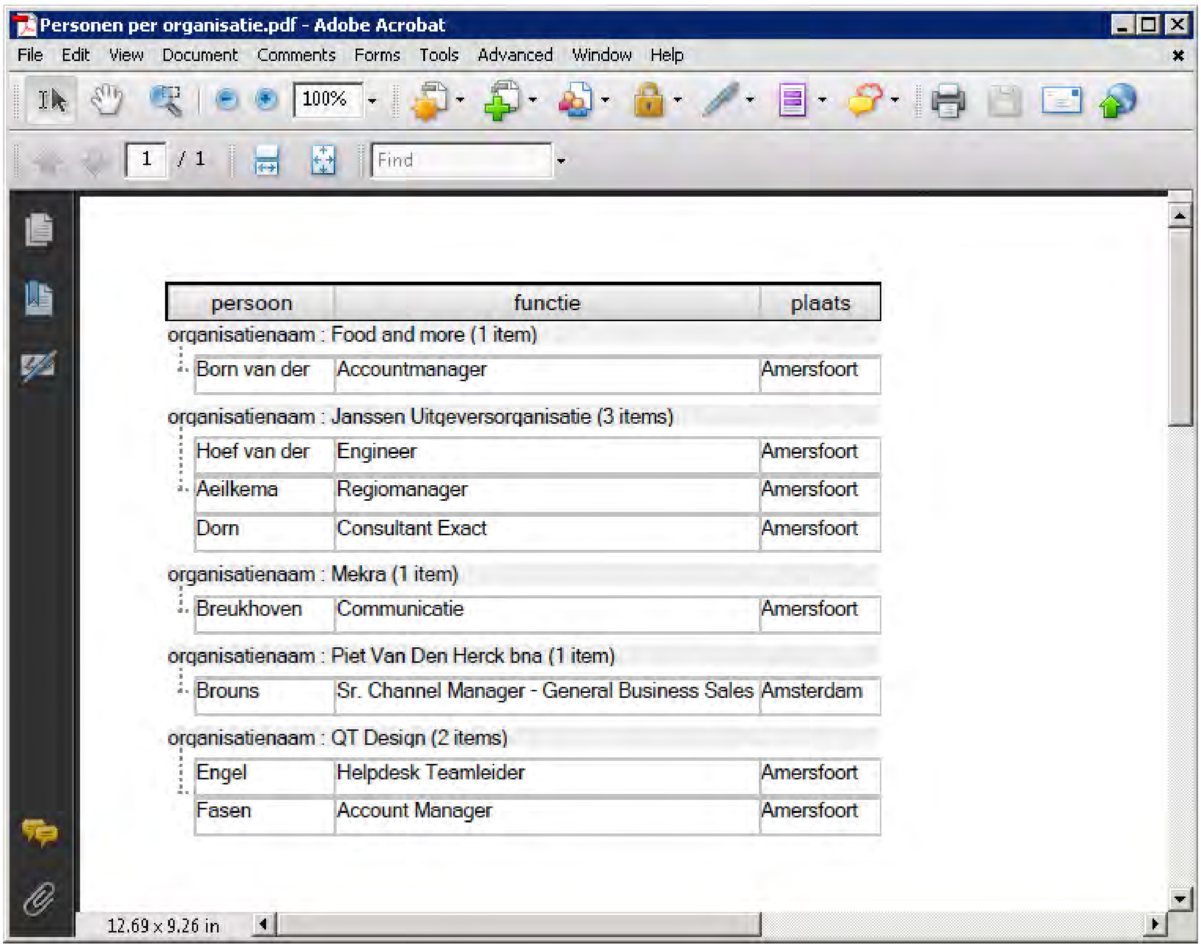
- The image shows the result of the SQL query in Microsoft Excel.


Personen per organisatie - Microsoft Excel
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Team
Paste
Clipboard
Microsoft Sans
8
Font
Alignment
General
Number
Styles
Insert
Delete
Format
Cells
Sort & Filter
Find & Select
Editing
A1
Sheet1
Ready
100%

organisatienaam : Food and more (1 item)

	A	B	C	D
1	organisatienaam : Food and more (1 item)			
2				
3		**persoon**	**functie**	**plaats**
4		Born van der	Accountmanager	Amersfoort
5				
6	organisatienaam : Janssen Uitgeversorganisatie (3 items)			
7				
8		**persoon**	**functie**	**plaats**
9		Hoef van der	Engineer	Amersfoort
10		Aeilkema	Regiomanager	Amersfoort
11		Dorn	Consultant Exact	Amersfoort
12				
13	organisatienaam : Mekra (1 item)			
17				
18	organisatienaam : Piet Van Den Herck bna (1 item)			
22				
23	organisatienaam : QT Design (2 items)			

- The image shows the result of the SQL query in Adobe Acrobat.


Personen per organisatie.pdf - Adobe Acrobat
File
Edit
View
Document
Comments
Forms
Tools
Advanced
Window
Help
100%
1 / 1
Find
12.69 x 9.26 in

persoon	functie	plaats
organisatienaam : Food and more (1 item)		
Born van der	Accountmanager	Amersfoort
organisatienaam : Janssen Uitgeversorganisatie (3 items)		
Hoef van der	Engineer	Amersfoort
Aeilkema	Regiomanager	Amersfoort
Dorn	Consultant Exact	Amersfoort
organisatienaam : Mekra (1 item)		
Breukhoven	Communicatie	Amersfoort
organisatienaam : Piet Van Den Herck bna (1 item)		
Brouns	Sr. Channel Manager - General Business Sales	Amsterdam
organisatienaam : QT Design (2 items)		
Engel	Helpdesk Teamleider	Amersfoort
Fasen	Account Manager	Amersfoort

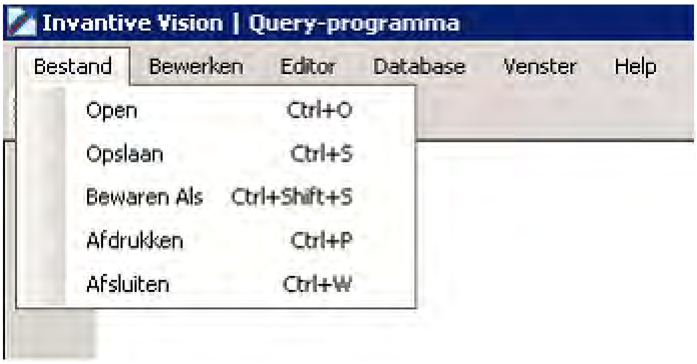
2.2.2 Editor

In the editor you can execute queries. There are five types of SQL statements possible:

- Select.
- Insert.
- Update.
- Delete
- PL/SQL (Begin ... End, without line breaks and blank lines)

A possible transaction is immediately recorded at the end of the execution of the statement.

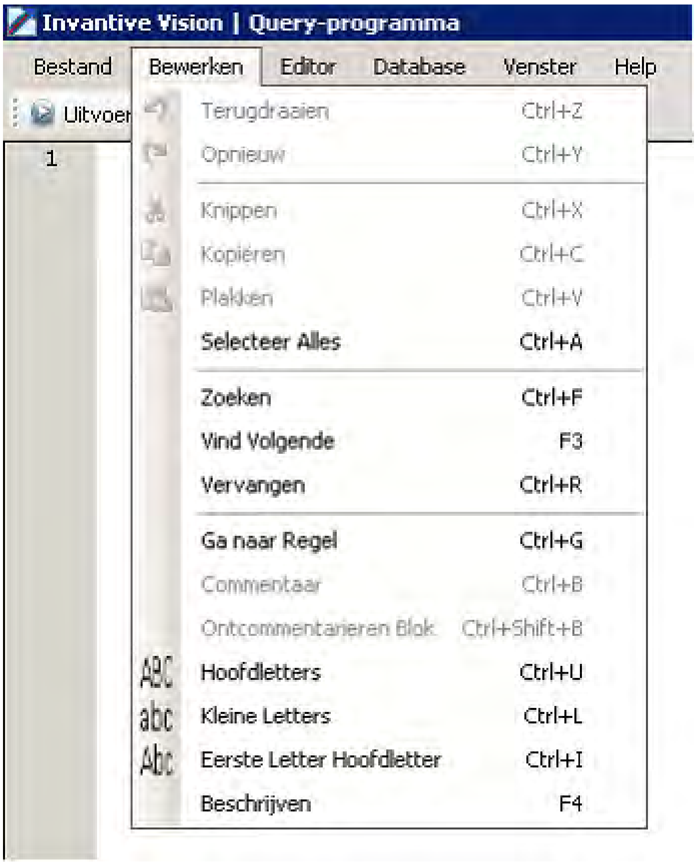
Menu File


Invantive Vision | Query-programma
Bestand
Bewerken
Editor
Database
Venster
Help
Open Ctrl+O
Opslaan Ctrl+S
Bewaren Als Ctrl+Shift+S
Afdrukken Ctrl+P
Afsluiten Ctrl+W

Here queries can be opened, saved, saved under a different name and printed.

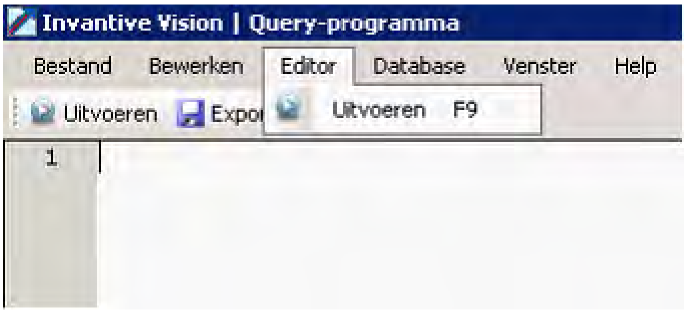
In addition, via ‘Exit’ the Query Tool can be closed.

Menu Editor


Invantive Vision | Query-programma
Bestand
Bewerken
Editor
Database
Venster
Help
Uitvoer
1
Terugdraaien Ctrl+Z
Opnieuw Ctrl+Y
Knippen Ctrl+X
Kopiëren Ctrl+C
Plakken Ctrl+V
Selecteer Alles Ctrl+A
Zoeken Ctrl+F
Vind Volgende F3
Vervangen Ctrl+R
Ga naar Regel Ctrl+G
Commentaar Ctrl+B
Ontcommentarieren Blok Ctrl+Shift+B
Hoofdletters Ctrl+U
Kleine Letters Ctrl+L
Eerste Letter Hoofdletter Ctrl+I
Beschrijven F4

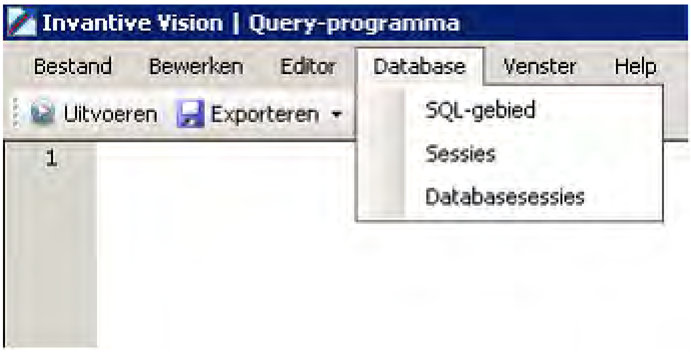
The 'Editor' menu contains all items with which you can edit the query text.

Menu Editor


Invantive Vision | Query-programma
Bestand
Bewerken
Editor
Database
Venster
Help
Uitvoeren
Expor
Uitvoeren F9
1

Via 'Run' you can run the query. The results of the query are displayed in the Query Results tab in Query Output.

Menu Database


Invantive Vision | Query-programma
Bestand
Bewerken
Editor
Database
Venster
Help
Uitvoeren
Exporteren
SQL-gebied
Sessies
Databasesessies
1

This menu consists of three specific database menu items:

SQL area: This menu item places the following query in the editor:

select *

from itgen_db_sqlarea_r

where 1=1

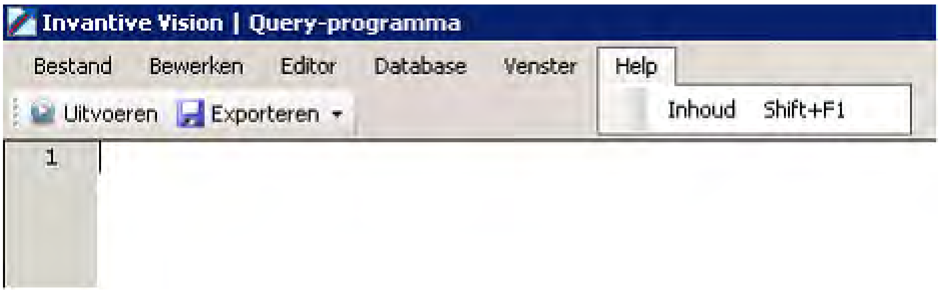
order

by elapsed_time desc

Sessions: ?

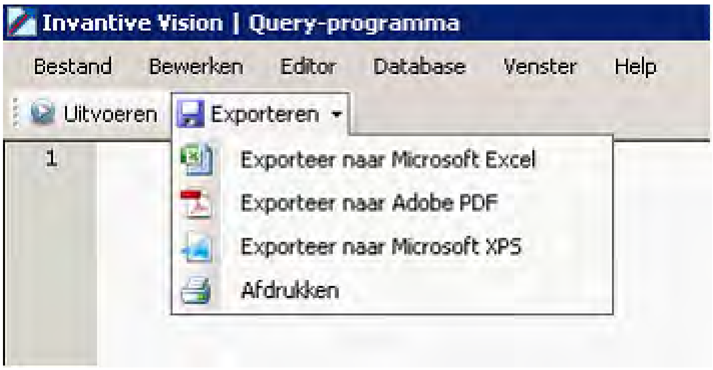
Database session: ?

Menu Help


Invantive Vision | Query-programma
Bestand
Bewerken
Editor
Database
Venster
Help
Uitvoeren
Exporteren
Inhoud Shift+F1
1

Using this menu the Help for the Query Tool can be requested as part of the Invantive Vision Help.

Export Menu


Invantive Vision | Query-programma
Bestand
Bewerken
Editor
Database
Venster
Help
Uitvoeren
Exporteren
Exporteer naar Microsoft Excel
Exporteer naar Adobe PDF
Exporteer naar Microsoft XPS
Afdrukken
1

Using the Export tab, you can print the output of queries or export it to different formats.

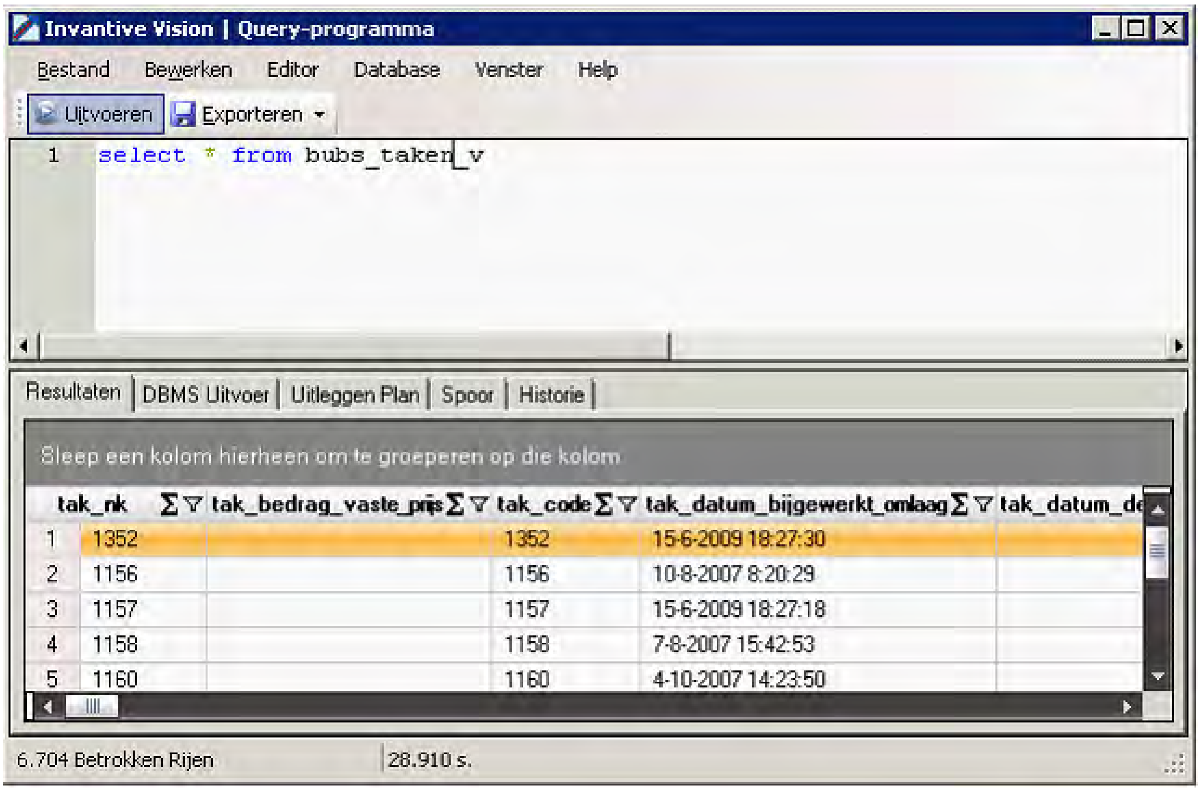
2.2.3 Query-output

The query output can be started with the function key 'F9'.

If the editor contains a valid query this will lead to output in different tabs under the tab 'Output'.

2.2.3.1 Query-results

Executing a query results in filling the tab Output with the records delivered by the query.


Invantive Vision | Query-programma
Bestand
Bewerken
Editor
Database
Venster
Help
Uitvoeren
Exporteren
Resultaten
DBMS Uitvoer
Uitleggen Plan
Spoor
Historie
Sleep een kolom hierheen om te groeperen op die kolom

```
select * from bubs_taken_v
```

	tak_nr	tak_bedrag_vaste_prijs	tak_code	tak_datum_bijgewerkt_omlaag	tak_datum_de
1	1352		1352	15-6-2009 18:27:30	
2	1156		1156	10-8-2007 8:20:29	
3	1157		1157	15-6-2009 18:27:18	
4	1158		1158	7-8-2007 15:42:53	
5	1160		1160	4-10-2007 14:23:50	

6.704 Betrokken Rijen | 28.910 s.

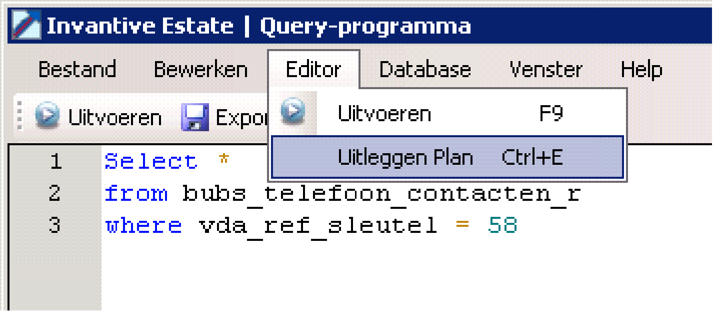
Also the number of rows and the execution time will be displayed.

2.2.3.2 DBMS-output

This tab includes the output of dbms_output.put_line statements (only in combination with Oracle RDBMS)

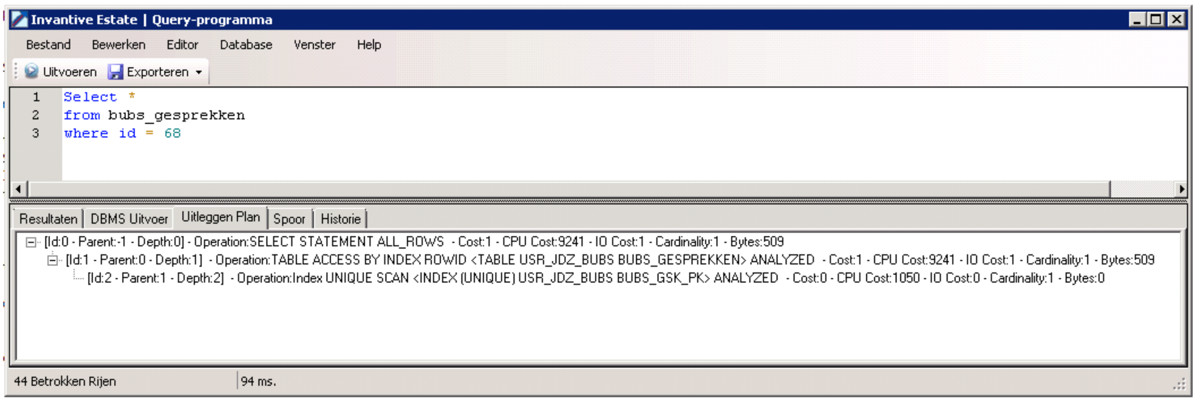
2.2.3.3 Explain Plan

The Explain Plan can be executed using the menu item 'Explain Plan' or using the key combination Ctrl+E:


Invantive Estate | Query-programma
Bestand
Bewerken
Editor
Database
Venster
Help
Uitvoeren
Expor
Uitvoeren F9
Uitleggen Plan Ctrl+E

```
Select *
from bubs_telefoon_contacten_r
where vda_ref_sleutel = 58
```

The executing of 'Explain Plan' ensures the filling of the tab 'Explain Plan' with the rows which are completed by the 'Explain Plan' of Oracle:


Invantive Estate | Query-programma
Bestand
Bewerken
Editor
Database
Venster
Help
Uitvoeren
Exporteren
Resultaten
DBMS Uitvoer
Uitleggen Plan
Spoor
Historie

```
Select *
from bubs_gesprekken
where id = 68
```

```
[Id:0 - Parent:-1 - Depth:0] - Operation:SELECT STATEMENT ALL_ROWS  - Cost:1 - CPU Cost:9241 - IO Cost:1 - Cardinality:1 - Bytes:509
  [Id:1 - Parent:0 - Depth:1]  - Operation:TABLE ACCESS BY INDEX ROWID <TABLE USR_JDZ_BUBS BUBS_GESPREKKEN> ANALYZED  - Cost:1 - CPU Cost:9241 - IO Cost:1 - Cardinality:1 - Bytes:509
    [Id:2 - Parent:1 - Depth:2]  - Operation:Index UNIQUE SCAN <INDEX (UNIQUE) USR_JDZ_BUBS BUBS_GSK_PK> ANALYZED  - Cost:0 - CPU Cost:1050 - IO Cost:0 - Cardinality:1 - Bytes:0
```

44 Betrokken Rijen | 94 ms.

In the tab, the way the query will be executed by Oracle is shown in tree form.

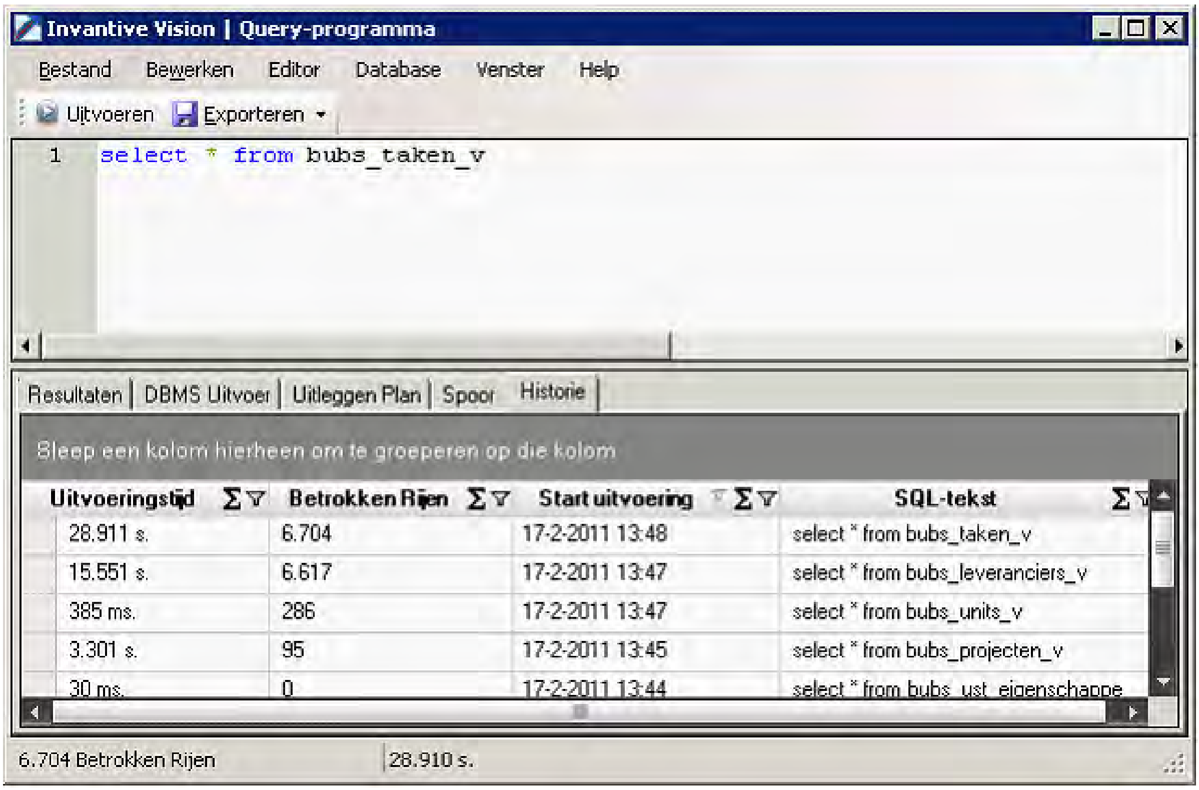
With this the to be executed actions are in order of the ID, so from a branch with the deepest level back to the parent level and back to a related level; this is called 'Processing in Order'.

2.2.3.4 Trace

This tab contains the result of an Oracle trace (only in combination with Oracle RDBMS)

2.2.3.5 History executed queries

Executing a query ensures the filling of the tab history because the data of the last executed query is added.


Invantive Vision | Query-programma
Bestand
Bewerken
Editor
Database
Venster
Help
Uitvoeren
Exporteren
Resultaten
DBMS Uitvoer
Uitleggen Plan
Spoor
Historie
Sleep een kolom hierheen om te groeperen op die kolom

```
select * from bubs_taken_v
```

Uitvoeringstijd	Betrokken Rijen	Start uitvoering	SQL-tekst
28.911 s.	6.704	17-2-2011 13:48	select * from bubs_taken_v
15.551 s.	6.617	17-2-2011 13:47	select * from bubs_leveranciers_v
385 ms.	286	17-2-2011 13:47	select * from bubs_units_v
3.301 s.	95	17-2-2011 13:45	select * from bubs_projecten_v
30 ms.	0	17-2-2011 13:44	select * from bubs_ust_eigenschappe

6.704 Betrokken Rijen | 28.910 s.

As long as the Query Tool is open a record is added after each output.

2.3 Availability

The following Invantive products provide a user license of Invantive Query Tool:

- Invantive Estate for Outlook;

- Invantive Control;
- Invantive Composition.

The Invantive Query Tool is also separately available and can be downloaded via the link:http://webservice.invantive.com/qt/publish.htm

2.4 System Requirements

To use Invantive Query Tool on your PC or terminal server you will need the following software including licenses:

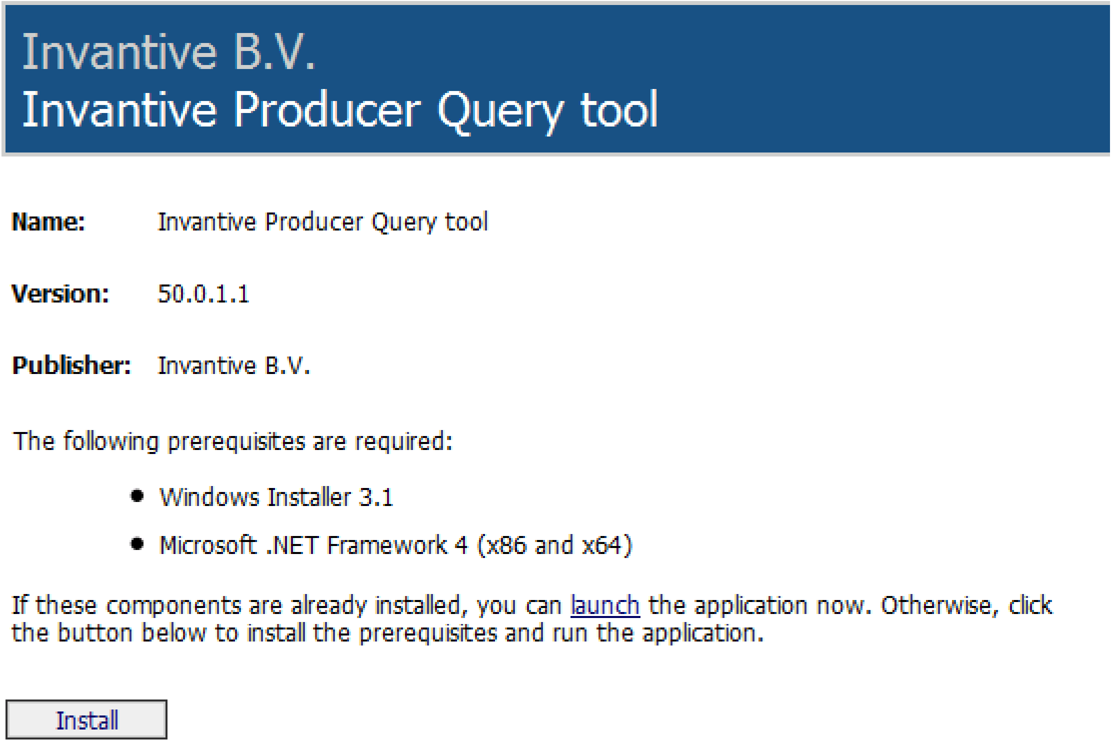
- Microsoft .NET 4.5.
- Minimum 2 GB of internal memory.
- Screen resolution of 1280 x 1024 or higher.
- Invantive Webservice or local drivers.

Use on Mac, tablet or smartphone is not possible.

2.5 Installation

Perform the next steps to install Invantive Query Tool:

- Use an Internet browser to go to the link: http://webservice.invantive.com/qt/publish.htm. Then click ‘Install’, next save the file and execute it.



Invantive B.V.
Invantive Producer Query tool

Name: Invantive Producer Query tool

Version: 50.0.1.1

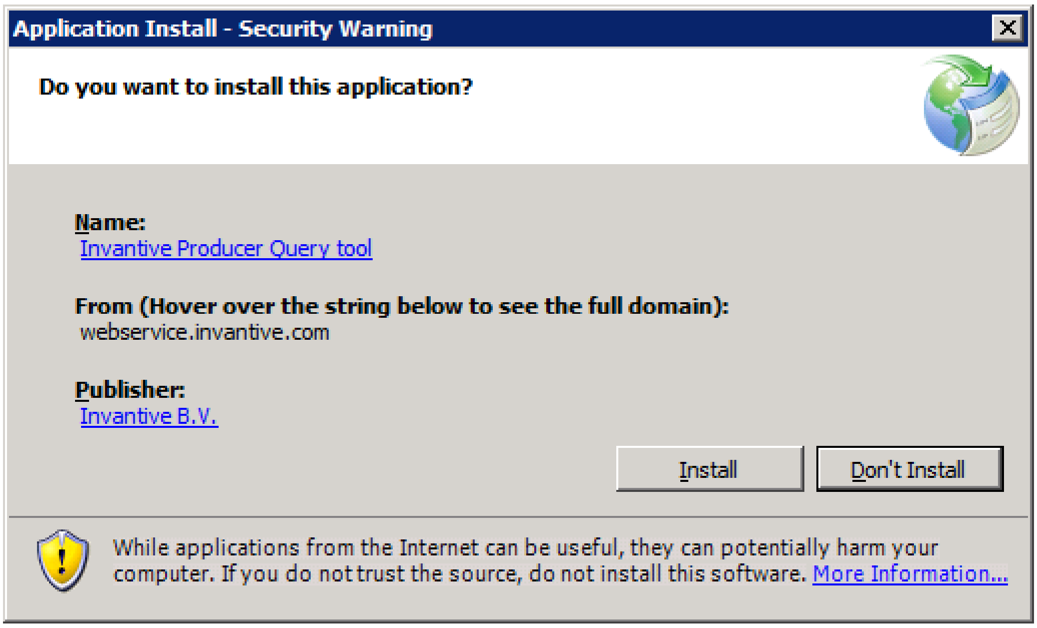
Publisher: Invantive B.V.

The following prerequisites are required:

- Windows Installer 3.1
- Microsoft .NET Framework 4 (x86 and x64)

If these components are already installed, you can launch the application now. Otherwise, click the button below to install the prerequisites and run the application.

- Click on the button 'Install' to install the Invantive Query Tool on the computer.



Application Install - Security Warning

Do you want to install this application?

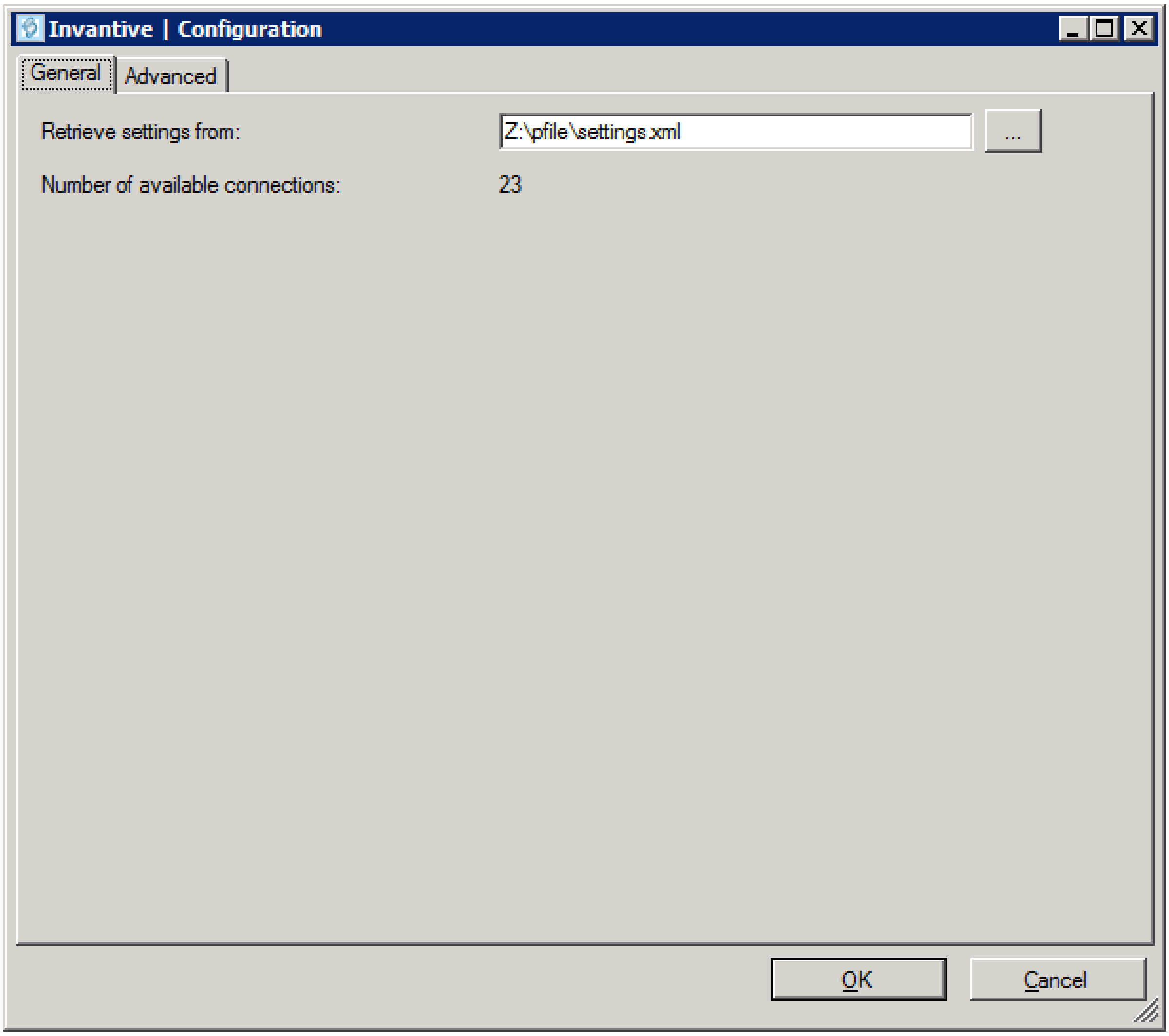
Name:
Invantive Producer Query tool

From (Hover over the string below to see the full domain):
webservice.invantive.com

Publisher:
Invantive B.V.

While applications from the Internet can be useful, they can potentially harm your computer. If you do not trust the source, do not install this software. More Information...

- After installation, the following window will be shown. In this screen, you need to enter the location of the connection file. See Connections Settings 612 for an explanation of the connection file. Select ‘OK’ to save your changes.

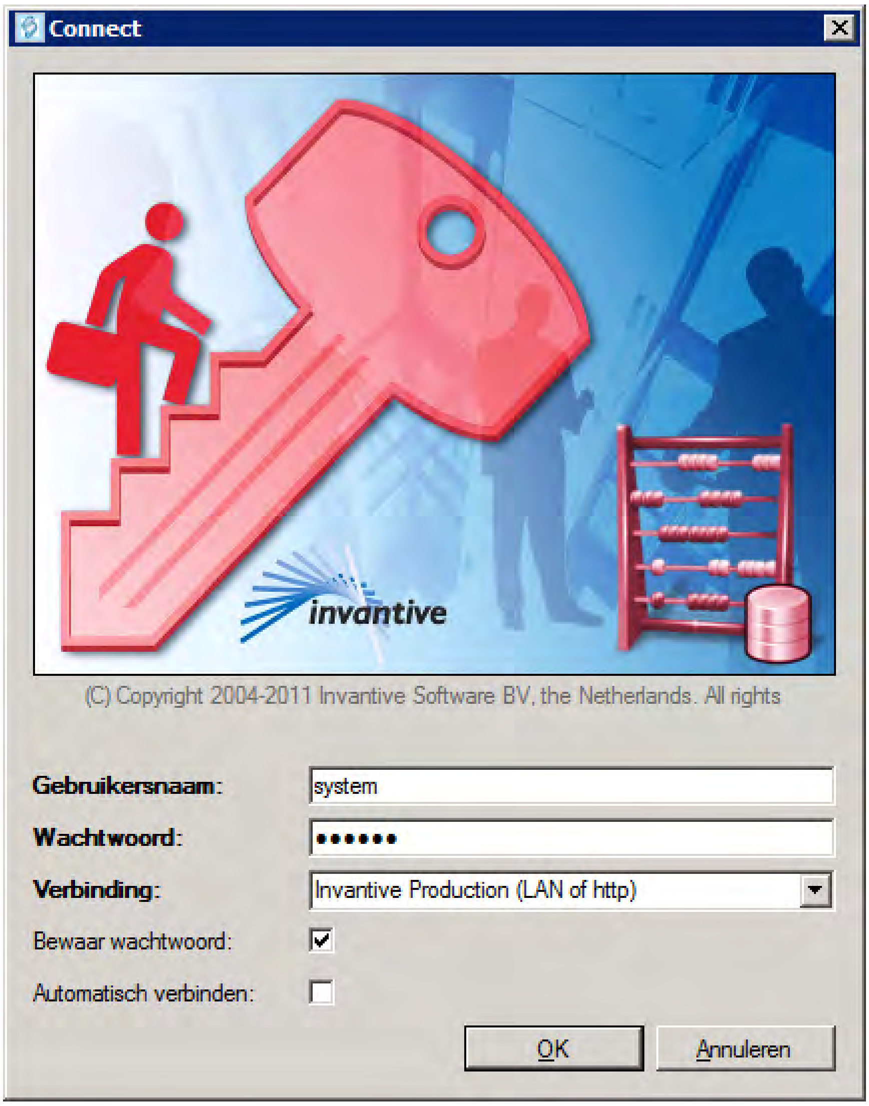


Invantive | Configuration

Retrieve settings from: Z:\pfile\settings.xml

Number of available connections: 23

- Next comes the login screen. Next enter the username, password and connection and select ‘OK’.



(C) Copyright 2004-2011 Invantive Software BV, the Netherlands. All rights

Gebruikersnaam: system

Wachtwoord: ••••••

Verbinding: Invantive Production (LAN of http)

Bewaar wachtwoord: ☑

Automatisch verbinden: ☐

- In order to change the settings of Invantive Query Tool after installation, press 'Crtl' when starting up Invantive Query Tool.

2.6 Versions

This chapter describes the changes in the application per version.

2.6.1 Release 2014 R1

Released: XX-XX-2014.

Invantive Producer: bXX.

Changes and bug fixes:

Number	Type	Product	Description
12935	ER	Invantive Query Tool	dbms_output en explain plan in Query Tool
21718	PR	Invantive Query Tool	Describe werkt niet in Query Tool ondanks rechten op de functie itgen_querytool_describe.
1994	ER	Invantive Qu-	Lijst meest recente documenten (stuk of 10) tonen in Bestandsmenu.

Number	Type	Product	Description
3		ery Tool	

Installation

- No specialties.

Implementation

- No specialties.

3 Invantive Webservice

This chapter describes the possibilities of the Invantive Webservice.

3.1 Web services

Because of the technological changes and the mobility of employees more and more traditional work spaces are disappearing. Employees work at home more often or make use of travel time work time. Work processes like the making of financial reports or the start-up of a new project take place more and more outside of the office. For companies this means that work processes are assigned differently and should be optimized. To allow for the work processes to run as efficient and effective as possible it is required to have quick and safe access to the company network through the Internet.

Webservices make it possible for companies to organize work processes through the Internet even smarter. By providing access to the company network and applications using webservices, it is possible to coordinate and optimize processes from each location.

3.2 Advantages

The Invantive Webservice offers various advantages:

- The Invantive Webservice makes it easy to quickly and safely exchange data through the internet between various databases and services. For companies this means that the execution of financial calculations and the manufacturing and recording of contracts is available from every location. the Invantive Webservice allows different companies to work together more effective and more efficient within a project.
- That is because the Invantive Webservice simplifies the exchange of information between different parties within a project. The Invantive Webserive makes it possible to give partners - through http(s) - authorized access to applications and databases. The advantage of this is that existing applications and applications based on Invantive Producer can easily exchange data. This means that partners can use óne application for the planning of projects, execution of complex calculation models and the registration of work hours. Using the Invantive Webservices the data can - depending on the security model - be retrieved and processed in the own administration. This makes it possible to provide multiple clients and/or relations quick and safe access to the company network with the Invantive Webservice.
- With the Invantive Webservice work processes can be organized even smarter and be optimized. The result is the more effective and efficient work on a project.

3.3 System Requirements

Client

To use Invantive Webservice on your PC or terminal server you will need the following software including licenses:

- Microsoft .NET 4.5.
- Minimum 2 GB of internal memory.
- Screen resolution of 1280 x 1024 or higher.

On-Premises

For the use of Invantive Webservice as server within the private network you will need (so-called "on-premises" use):

- Operating system: Windows 2008 R1 Service Pack 2, Windows 2008 R2 or Windows 2012.
- Minimum of 4 Gb internal memory.
- Screen resolution of 1280 x 1024 or higher.
- Minimal 1 central processing unit for server use not older than 2 years.
- Drivers for the supported databases or own specific drivers for business applications.

3.4 Concept

With the Invantive Webservice Invantive applications and applications based on Invantive Producer can exchange data with databases and other services using the internet or the company network.

It is also possible to use these applications without Invantive Webservice, but for installations with more than one user this is strongly discouraged. With the Invantive Webservice it will take no time outside of the client installation to allow an extra user or PC to make use of a database; without the Invantive Webservice this will take considerably more time for each PC and/or user.

The exchange of data happens through webservices that use the so-called http and/or https protocol. Depending on the chosen security model you can exchange data with databases in the company network using the Invantive webservice both within the company network as well as on the internet from Invantive applications and applications based on Invantive Producer.

You can also - if authorized - exchange data with databases at various companies. With this you can easily collaborate with multiple clients and/or relations in an efficient manner, wherever you are and whenever you feel the need to. Every client and/or relation also has an own installation of the Invantive Webservice.

The Invantive Webservice works as follows:

- A user starts an application based on Invantive technology.
- The application will know automatically or hear from the user which connection is to be used with which user name and password.
- The connection are is retrieved in a list with available connections and the related (possible redundant) channels.
- On the basis of the retrieved preferences and availability a channel is chosen for communication.
- Through this channel a connection is established with the service provided by the webservice.

- Data and requests are exchanged.

If the connection drops, then the connection is automatically established again. A possible alternative channel for the connection is used if the desired channel is not available.

3.5 Database platforms

An installation of the Invantive Webservice consists of one or multiple installations of the Invantive Webservice programming. In addition to the programming you also need to indicate the connections to databases that can be used through this installation. These can at least be the following database platforms:

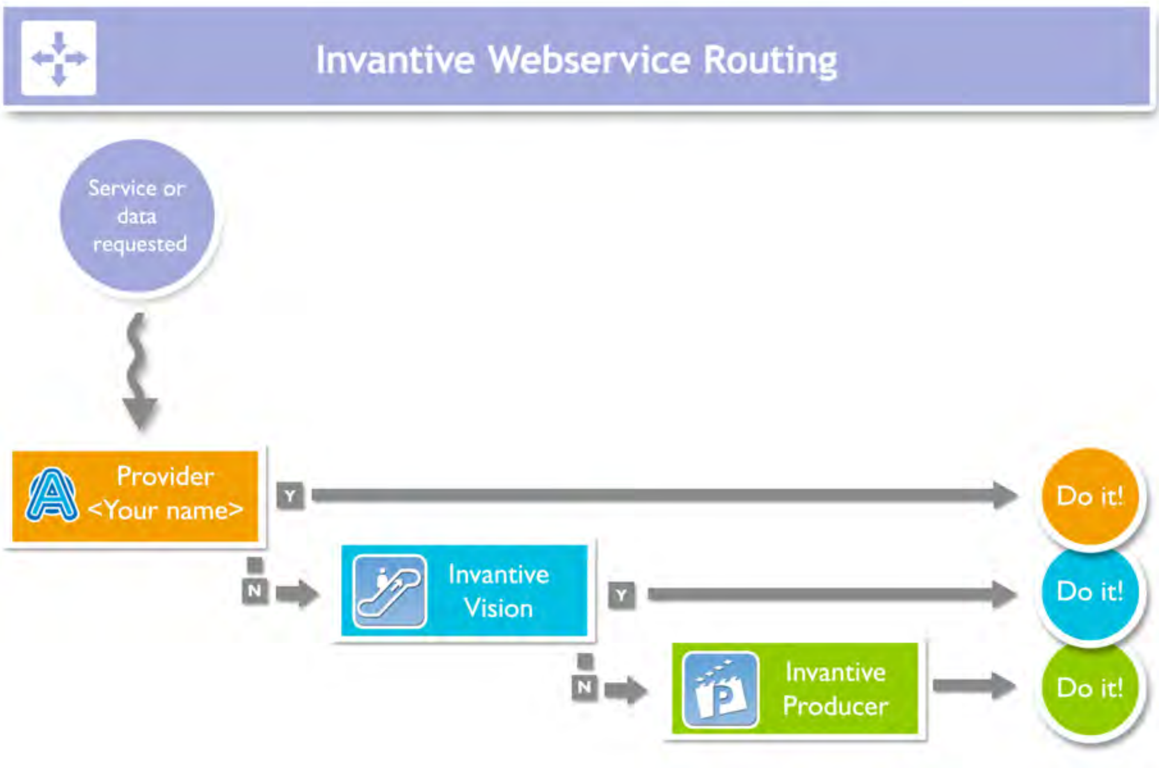
- Microsoft SQL Server
- Oracle RDBMS
- MySQL
- IBM DB2 UDB (Linux, Unix, Windows)

The actual choice of the database platform depends on which application you will be using. Some (company) applications only work on a portion of the database platforms.

The support of extra database platforms can be added by a system developer or ordered with Invantive.

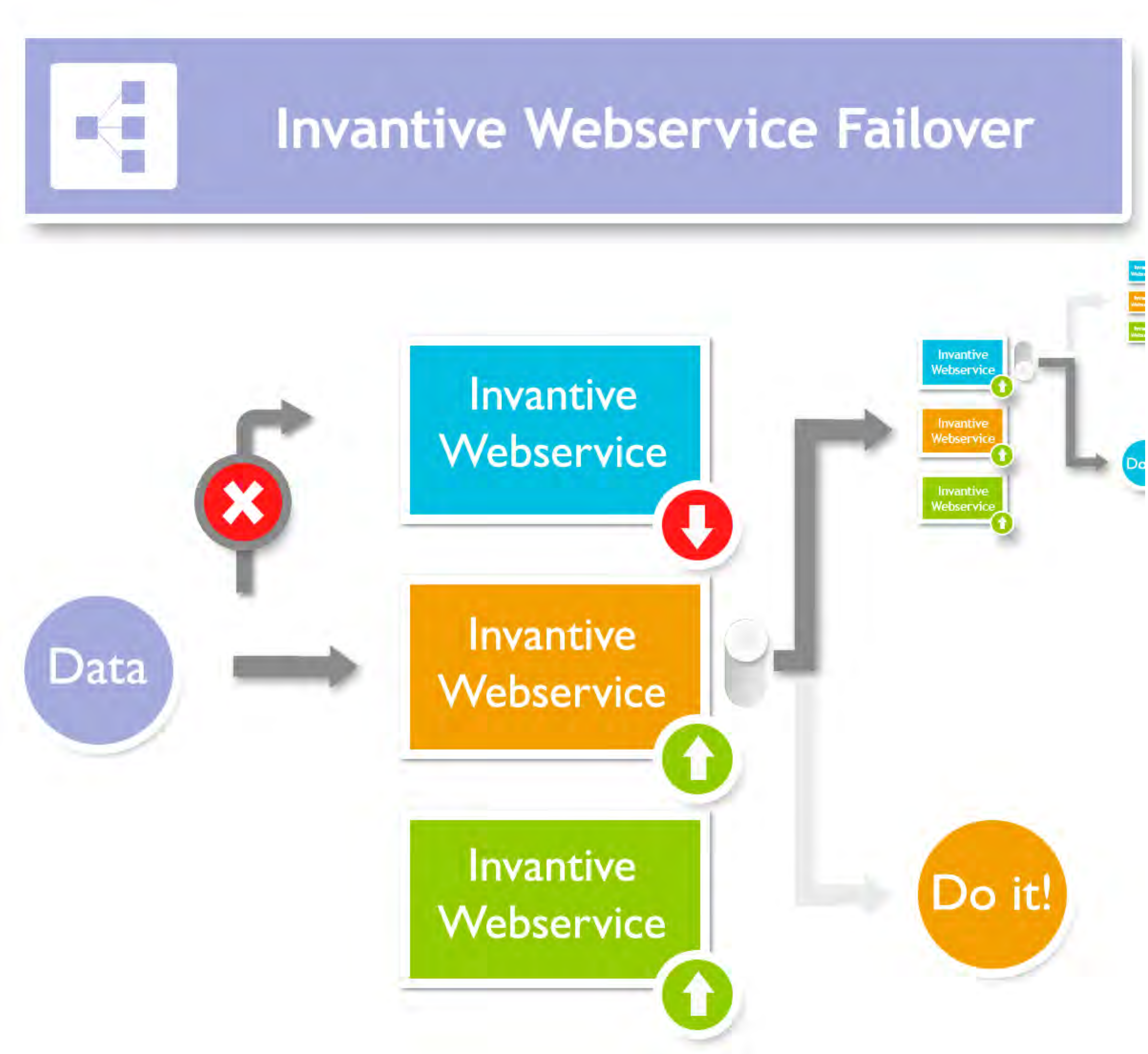
Requests are routed to providers as soon as requests for data or actions arrive to the webserver. In the configuration file you can adjust in which order this happens (see image).

See also Providers Configuration 615.



3.6 Redundance

For a higher availablity you can install multiple installations of the Invantive Webservice programming. These installations can be located on óne server or on multiple servers. With multiple servers you ensure a better availability: even if a server breaks then the users can still keep on working (see image).


Invantive Webservice Failover
Data
Invantive Webservice
Invantive Webservice
Invantive Webservice
Invantive Webservice
Invantive Webservice
Invantive Webservice
Do it!

The redundance can be set in the settings.xml file. See also Connection configuration 612. As soon as a connection is no longer available the programming of your user will try to use a different available connection.

3.7 Installation

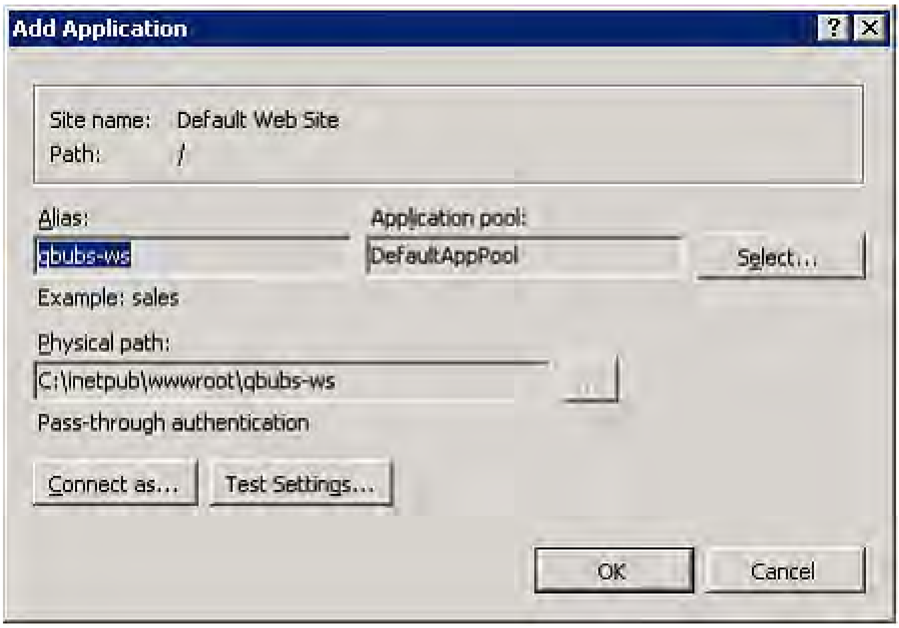
This element describes the installation of the Invantive Webservice and its components.

3.7.1 Invantive Webservice Programming

Execute following steps to make the Invantive Webservice available to the users.

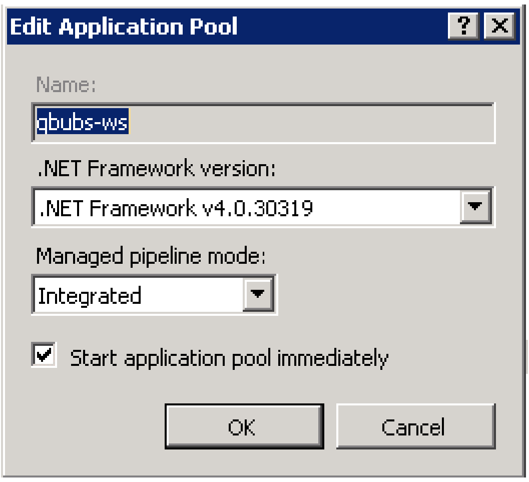
- Install Microsoft IIS 7 or 8 including ASP.NET support.
- Install Microsoft .NET Framework version 4.5 or newer. In the Control Panel among the installed programs there will then be listed ‘Microsoft .NET Framework 4.5’.
- Copy invantive-webservice in the distribution to the folder that is known within Microsoft IIS, preferably ‘webservice’ within the folder of the application or alternatively c:\inetpub\wwwroot\invantive-webservice, c:\inetpub\wwwroot\<OMGEVING>-ws or (preferably) ENVIRONMENTDIR\webservice.
- Adjust settings.xml in this folder as described in settings.xml.sample.

- Start Microsoft IIS with ‘inetmgr’ or through Control Panel.
- Select ‘Properties’ from the folder.
- Convert the folder to application with an own application pool:


Add Application
Connect as...
Test Settings...
Select...
OK
Cancel

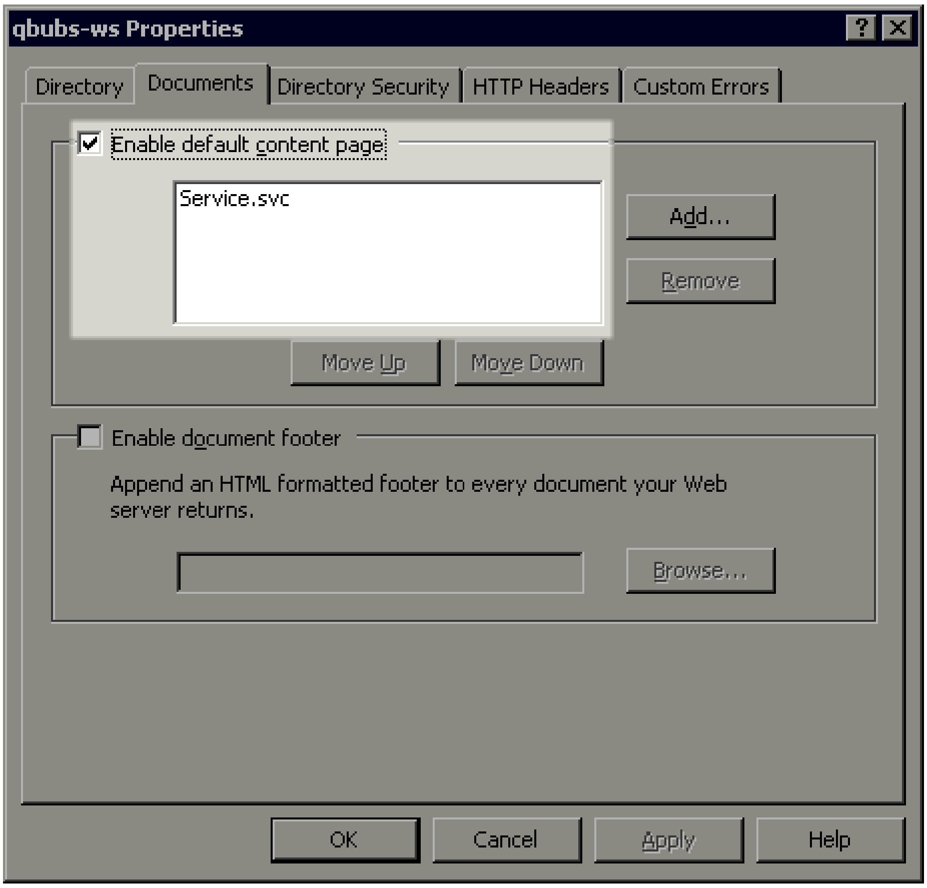
Site name: Default Web Site
Path: /
Alias: qbubs-ws
Example: sales
Application pool: DefaultAppPool
Physical path: C:\Inetpub\wwwroot\qbubs-ws
Pass-through authentication

- Set the application in for use of the application pool 'ASP.NET v4.0':


Edit Application Pool
OK
Cancel

Name: qbubs-ws
.NET Framework version: .NET Framework v4.0.30319
Managed pipeline mode: Integrated
☑ Start application pool immediately

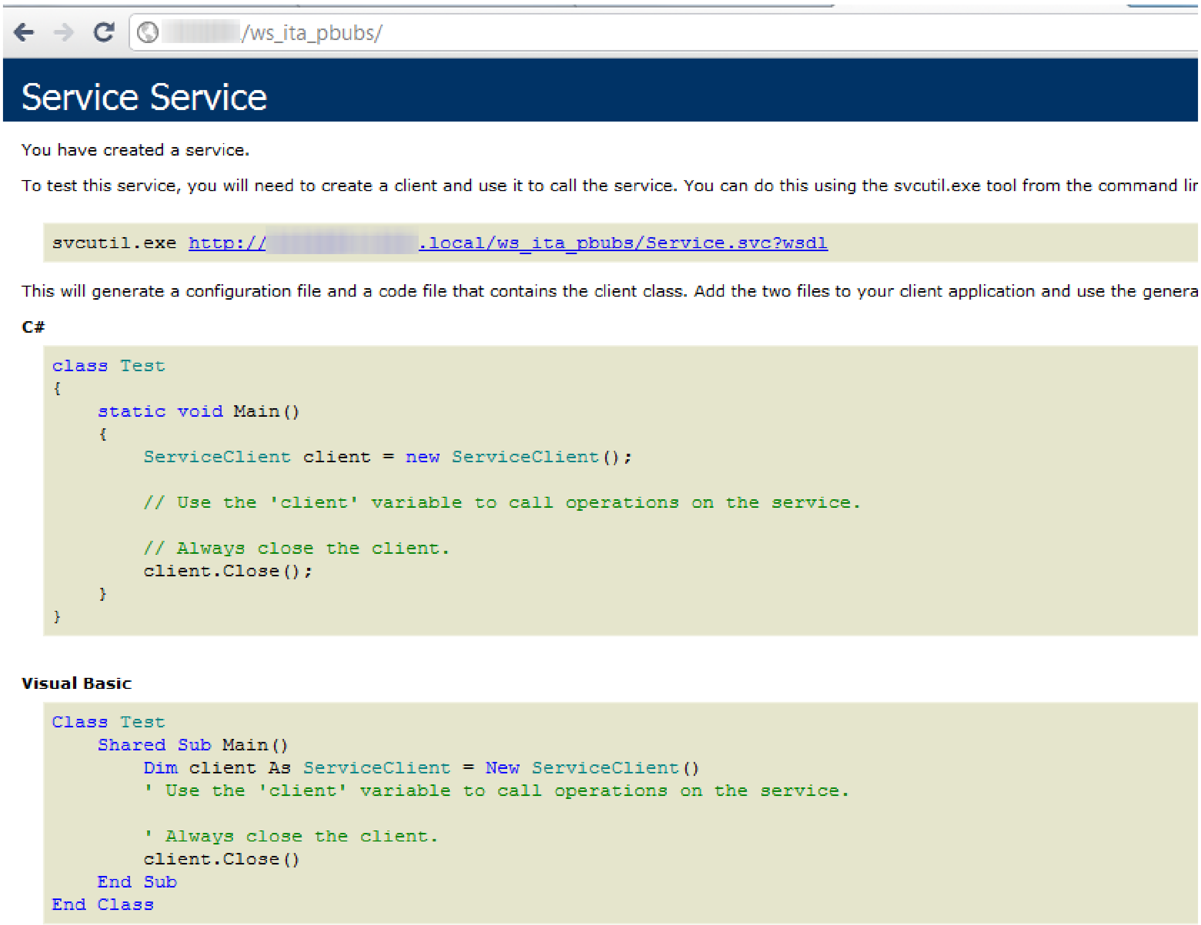
- Set the standard page Service.ashx:


qbubs-ws Properties
Directory
Documents
Directory Security
HTTP Headers
Custom Errors
☑ Enable default content page
Add...
Remove
Move Up
Move Down
☐ Enable document footer
Browse...
OK
Cancel
Apply
Help

Service.svc

Append an HTML formatted footer to every document your Web server returns.

- You can now test the web service by opening the page. You will receive output such as (t23522):



Service Service

You have created a service.

To test this service, you will need to create a client and use it to call the service. You can do this using the svcutil.exe tool from the command lir

```
svcutil.exe http://[redacted].local/ws_ita_pbubs/Service.svc?wsdl
```

This will generate a configuration file and a code file that contains the client class. Add the two files to your client application and use the genera

C#

```
class Test
{
    static void Main()
    {
        ServiceClient client = new ServiceClient();

        // Use the 'client' variable to call operations on the service.

        // Always close the client.
        client.Close();
    }
}
```

Visual Basic

```
Class Test
    Shared Sub Main()
        Dim client As ServiceClient = New ServiceClient()
        ' Use the 'client' variable to call operations on the service.

        ' Always close the client.
        client.Close()
    End Sub
End Class
```

3.7.2 Certificate

If you make use of https, then you need to submit a certificate (see also http://www.iis.net/learn/manage/configuring-security):

- Start MMC with 'Run'.
- Go to the File menu and select 'Add/Remove Snap-in'.
- Click on Certifcates and click on 'Add'.
- Select 'Computer Account' and click on 'Next'.
- Select 'Local Computer' and click on 'Finish'.
- Select 'OK'.
- Click on 'Certificates (Local Computer)' in the middle part of the window.
- Click on the right on 'Personal'.
- Select 'All tasks' and then 'Import'.
- Set up the filter for 'Personal Information Exchange (*.pfx)'.
- Select the .pfx bestand as Personal Certificate.
- Enter the password.
- If desired you select the check box 'Mark this key as exportable.'.
- Allow automatic placement in the storage for the certificate based on the type.
- Select 'Finish'.
- Close the MMC.
- It is not necessary to save the settings of MMC.

- Start Microsoft IIS through 'inetmgr'.
- Click right on the website (usually 'Default Website').
- Go to 'Edit bindings'.
- Add a 'https' binding and choose the Friendly Name of the certificate that you have just imported.

3.7.3 Connection Configuration

To make a connection with an Invantive application or an application based on Invantive Producer there needs to be a file settings.xml with included within the configuration of the connection settings. This has to be an XML file with the same design as the example. The file can contain the configuration to connect with one or more servers.

If you start an Invantive-based application product for the first time the settings.xml file is searched for at multiple locations in succession:

- the installation folder containing setup.exe;
- from the installation folder a folder upwards;
- from the installation folder a folder up and the file folder in it;
- from the installation folder two folders up;
- from the installation folder two folders up and the file folder under it;
- from the installation folder three folders up;
- from the installation folder three folders up and the file folder under it;
- in the folder c:\ws.

If the settings.xml file can not be found, the user will be asked where the settings.xml file is located. The chosen location of the settings.xml file is remembered and used from that moment.

In the text below it is described how it works:

```
<?xml version="1.0" encoding="utf-8"?>
<!--
  (C) 2004-2013 Invantive BV, the Netherlands (www.invantive.com).

  $Header: http://svn.invantive.com/repos/p104/trunk/help/nl/manual/Topics/verbin-
dingsconfiguratie.xml 23549 2013-11-01 14:21:27Z smoke $

  Purpose:
  Configuration of the Invantive Webservice and direct database connections
  available to client and the Invantive Webservice acting as a database client.

  Explanation:
  Connections are used to retrieve data from a database and to update the contents
of databases.
  This settings file can accommodate all settings for database and web service
connections
  that are used by Invantive products.
  This file contains a number of structured elements, explained further on.

  Top level: the connection groups.
  This is the root level of the settings file. It only contains connections
groups.
```

```
  Attributes:
  * "default": The default connection. The format is 'group\connection'.
    the first connection with the given name will be used when the group element
is omitted.
  * "forceDefault": If true, only the default connection can be used. No other
connection is
    eligible for selection based upon this settings.xml file. You can use for in-
stance when you
    add a new default connection and you want to make sure everyone switches to
the new connection,
    irrespective of what connection is currently used as default.

  The group level:
  This level defines a set of connections, logically grouped together. You are
  free to choose the way of grouping.
  Examples of logical manner of grouping: by customer, by environment (production,
test).

  Attributes:
  * "name": The name of the group.

  The connection level:
  This level defines an actual logical connection.
  For example: Production environment Acme site.
  Under this level, the actual transport mechanism and its settings can be defi-
ned.
  The connection and associated failovers are tried when initially establishing
the connection and when reconnecting
  after the provider detected a connection loss.
  The elements of this level can consist of two types:
  * physical connection (either an Invantive Webservice or direct database connec-
tion);
  * failovers.
  All physical connections listed will be brought online during application use.

  Attributes:
  * "name": The name of the logical connection.

  The webservice element:
  This element defines a connection using the Invantive.Providers.Webservice pro-
vider.
  This provider is capable of proxying database connections over HTTP/HTTPS. A
client
  can connect to a database directly through a webservice, but a webservice can
route
  this request also to another Invantive Webservice and so on.

  Attributes:
  * "url": the url of the Invantive Webservice.
  * "encoding": the encoding to use.
    This will be passed as header on the request.
    Allowed values are: "binary" or "text". Default: binary. Use text for debug-
ging purposes or with poor CPU.
  * "compression": the compression method to use.
    This will be passed as header on the request. Allowed values are: "auto",
"true" or "false". Default: "auto" (will set compression enabled)
    Within a fast LAN network and/or with slow servers, we recommend no compressi-
on. In all other situations, we recommend
    compression to be enabled.

  The database element:
  This element defines a connection to a database using a provider
  specific for that type of database.
  Attributes:
  * "connectionString": the ADO.NET connection string for the specified provider.
    You can specify Data Source, User Id and other settings.
  * "provider": the name of the ADO.NET connection provider.
    For example: "Oracle.DataAccess.Client"

  The failover level:
  The failover level can define a list of database or webservice settings.
  It supplements the webservice/database element.
  Connection settings defined in a failover can be used to
  have a failover connection when one connection cannot be established.
  This can be useful when relying on a internet connection or presence of a VPN tunnel.
  Settings defined in this section will be evaluated one after another, starting top down.
  When any of the failovers can be established, no other failovers will be tried.

  Attributes:
  * (none)

  Examples:

  This example illustrates a single connection. The software will sequentially try to:
  * Connect to the 'authenticationServer' Active Directory server;
  * Connect to one of the connections in the failover:
    - First the database connection (when connection from the internal network or VPN);
    - The first webservice connection;
    - The second (or 'failover') webservice connection.

  <connections default="Customer A\Production" forceDefault="false">
    <group name="Customer A">
      <connection name="Production">
        <database connectionString="Data Source=authenticationServer;User Id=username;Password=thepublicpassword;Pooling=false" provider="Invantive.CustomerA.ActiveDirectory" />
        <failover>
          <database connectionString="Data Source=localhost;User Id=username;Password=thepublicpassword;Pooling=false" provider="Oracle.DataAccess.Client" />
          <webservice url="http://www.customer-a.com/ws/"      encoding="binary" compression="true" />
          <webservice url="http://failover.customer-a.com/ws/" encoding="binary" compression="true" />
        </failover>
      </connection>
    </group>
  </connections>

  This example illustrates connections to different database platforms. The software will try to:
  * Connect to the IBM DB2 UDB database when connection 'DB2' is selected;
  * Connect to the Microsoft SQL Server database when connection 'SQLServer' is selected;
  * Connect to the Oracle MySQL server when connection 'MySQL' is selected;
  * Connect to the Oracle RDBMS server when connection 'Oracle' is selected;

  <connections default="Customer A\Production" forceDefault="false">
    <group name="Customer A">
      <connection name="DB2">
        <database connectionString="Server=localhost;Database=THE_DATABASE;UID=username;PWD=password;CurrentSchema=schema" provider="IBM.Data.DB2" />
      </connection>
      <connection name="SQLServer">
```

```
        <database connectionString="Server=localhost;Database=database;User Id=us-
ername;Password=password;" provider="System.Data.SqlClient" />
      </connection>
      <connection name="MySQL">
        <database connectionString="Server=localhost;Database=database;Uid=userna-
me;Pwd=password" provider="MySql.Data.MySqlClient" />
      </connection>
      <connection name="Oracle">
        <database connectionString="Data Source=localhost;User Id=username;Pass-
word=password" provider="Oracle.DataAccess.Client" />
      </connection>
    </group>
  </connections>

-->
  <connections default="Customer A\Production" forceDefault="false">
    <group name="Customer A">
      <connection name="Production">
        <database connectionString="Data Source=authenticationServer;User Id=user-
name;Password=thepublicpassword;Pooling=false" provider="Invantive.CustomerA.Acti-
veDirectory" />
        <failover>
          <database connectionString="Data Source=localhost;User Id=username;Pass-
word=thepublicpassword;Pooling=false" provider="Oracle.DataAccess.Client" />
          <webservice url="http://www.customer-a.com/ws/"      encoding="binary"
compression="true" />
          <webservice url="http://failover.customer-a.com/ws/" encoding="binary"
compression="true" />
        </failover>
      </connection>
    </group>
  </connections>
```

3.7.4 Providers Configuration

In the providers configuration file providers.xml you configure which requests are processed by which providers and how the requests are routed within the Invantive Webservice. The possibilities are described in the sample file providers.xml.sample:

```
<?xml version="1.0" encoding="utf-8"?>
<!--
  (C) 2004-2013 Invantive BV, the Netherlands (www.invantive.com).

  $Header: http://svn.invantive.com/repos/p104/trunk/help/nl/manual/Topics/bubs-
Providers_Configuratie.xml 23549 2013-11-01 14:21:27Z smoke $

  Configuration of providers for Invantive Webservice


  Purpose:
  You can configure providers here, sorted by order.
  Providers are tried to handle a request in decreasing order. So the provider
with order 500 is offered
  the request before the provider with order 400 is offered the request.
  Providers with order 70, 80, 90, 100 and 200 are reserved for Invantive internal
use (see the table below).

  Explanation:
  Providers are used to provide functionality that is not part of the webservice.
  A provider knows how to handle a specific action on a specific platform.
  Some providers are included in the installation, such as providers for database
or webservice connectivity or a file logging provider.
  The default providers are included in the software, so they are not listed here
between the <providers> tag.

  A provider does in general NOT define WHERE the action will be executed. That is
normally specified by the settings.xml.
```

```
  But specific providers may contain the location WHERE the action will be execu-
ted as default value or specified as attributes
  with the provider's configuration.

  Default providers:
  The default providers are always available.
  A list of the default providers and there order (which cannot be used again):

  Order   Name                    Comments
  ---------------------------------------------------------------------------------
-----------------------------------------------------------------------------------
--------
   70     Oracle MySQL            Provider supporting the execution of actions on
Oracle MySQL.
                                  Built and tested with Connector/Net 6.7.4. See
http://dev.mysql.com/doc/refman/5.6/en/connector-net.html.
                                  File: Invantive.Data.Providers.MySql.dll
   80     Microsoft SQL Server    Provider supporting the execution of actions
onMicrosoft SQL server 7.0 and later.
                                  See http://msdn.microsoft.com/en-us/library/
kb9s9ks0.aspx.
                                  File: Invantive.Data.Providers.SqlServer.dll
   90     IBM DB2 UDB             Provider supporting the execution of actions
onIBM DB2 UDB  9.7 for Windows.
                                  Not tested on any other version.
                                  File: Invantive.Data.Providers.IbmDb2.dll
  100     Oracle RDBMS            Provider supporting the execution of actions
onOracle RDBMS 9i - 12c.
                                  Needs ODP.NET and OCI to be installed.
                                  File: Invantive.Data.Providers.Oracle.dll
  200     Invantive Webservice    Provider that is executing action by forwarding
it to another Invantive Webservice over HTTP/HTTPS.
                                  File: Invantive.Data.Providers.Webservice.dll
                                  Order 200 ensures that forwaring is preferred
instead of a database connection by default.

  The providers tag contains a list of providers available, each one consisting of
the provider-tag.

  Attributes of the <provider> tag:
  * "order": Sorting order of the provider. The higher the value, the sooner it is
called.
  * "file": The file name of the provider. This can be a path relative to the Pro-
viders directory, or an absolute path.
    Fully specify the path or use a path relative to the Invantive Webservice in-
stallation folder.
    Do not use the ASP.NET/IIS ~/-prefix to indicate the current folder.
  * "class": Optional. Full class name of the provider. You can specify the class
name to increase startup performance since
    it reduces the time needed querying the file.
    You need to specify the class if you want to load a single provider in a file
that contains multiple providers.

  The elements of the <provider> tag:
  * All: you can specify elements within the provider tag. See for instance the
<templatesfolder> element
    in the example below.
    Their names and values will be passed as attributes to the provider during in-
stantiation.

  Example:

  <providers>
    <provider
     order="998"
```

```
      file="C:\ws\distribute\invantive-sdk\Invantive.XXX.Provider.dll"
      class="Invantive.XXX.Provider.Provider"
     >
       <templatesfolder>C:\temp\templates\</templatesfolder>
       <serviceurl>http://localhost/ThisIsAnExmaple/Service.svc</serviceurl>
     </provider>
   <providers>

 -->
 <providers>
   <!-- Custom logging. -->
   <!--
   <provider
    order="999"
    file="C:\ws\distribute\invantive-sdk\Invantive.Data.Providers.Logging.dll"
    class="Invantive.Data.LoggingProvider"
   >
     <log>C:\temp\invantive_logging.log</log>
   </provider>
   -->
   <!-- Most preferred provider due to order 400.
        Data access provider for Invantive Estate and/or Invantive Vision.
        Generates an Oracle SQL execute request. Invantive Estate and
        Invantive Vision currently only support the Oracle RDBMS.
   -->
   <!--
   <provider
    order="400"
    file="Invantive.Estate.Data.Provider.dll"
    class="Invantive.Estate.Data.InvantiveEstateDataProvider"
   />
   -->
   <!-- Less preferred provider due to order 300.
        Data access provider for Invantive Producer products.
        The following Invantive Producer products require the use of Oracle RDBMS:
        * Invantive Studio
        * Invantive Query Tool
        The following Invantive Producer products run with all supported database
 platforms
        although this specific provider does not yet support it. Use a database
 specific
        provider instead:
        * Invantive Composition
        * Invantive Control
   -->
   <!--
   <provider
    order="300"
    file="Invantive.Producer.Data.Provider.dll"
    class="Invantive.Producer.Data.InvantiveProducerDataProvider"
   />
   -->
 </providers>
```

3.7.5 Providers

The Invantive Webservice can make use of various providers that record and retrieve data, but also offer other services. Here are the standard available providers.

3.7.5.1 Oracle Provider for Invantive Webservice

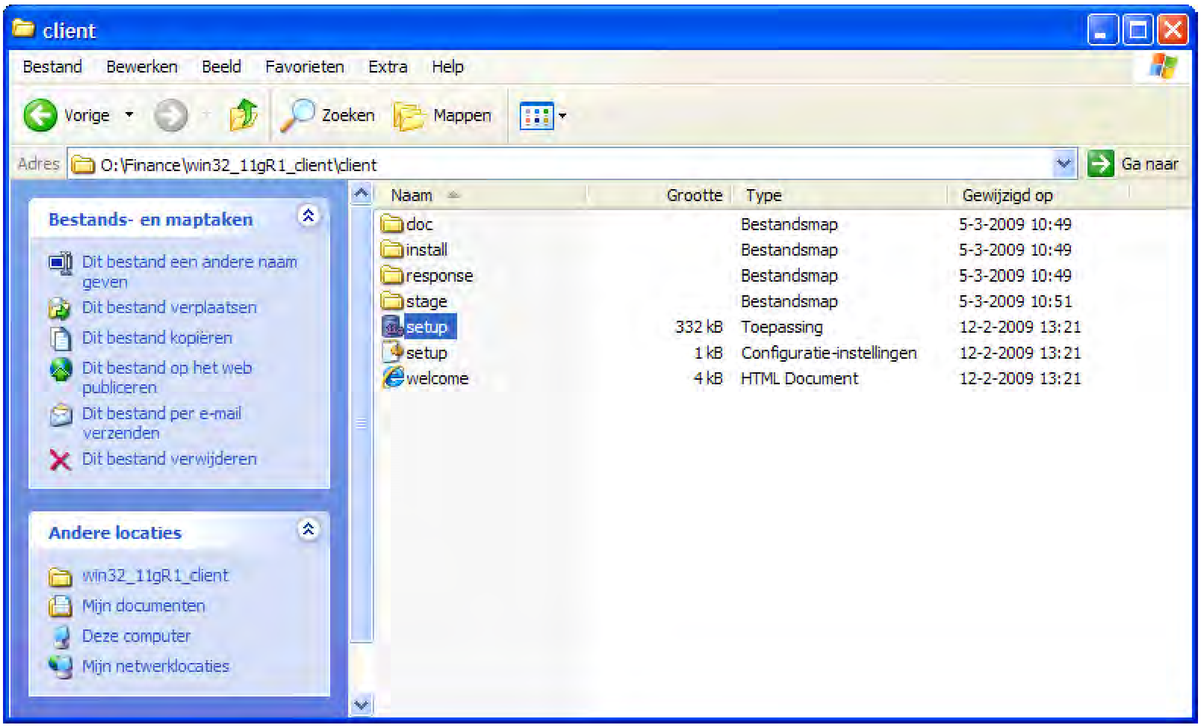
In this chapter the configuration of the provider is described.

In addition, some suggestions are provided to execute the installation of the Oracle programming. However, this is no replacement of the knowledge and experience with the local situation and trainings that an administrator or DBA has from his role and the results of the installation are therefore not guaranteed.

Oracle Client Installation

The installation of the Oracle client can be done following the next steps:

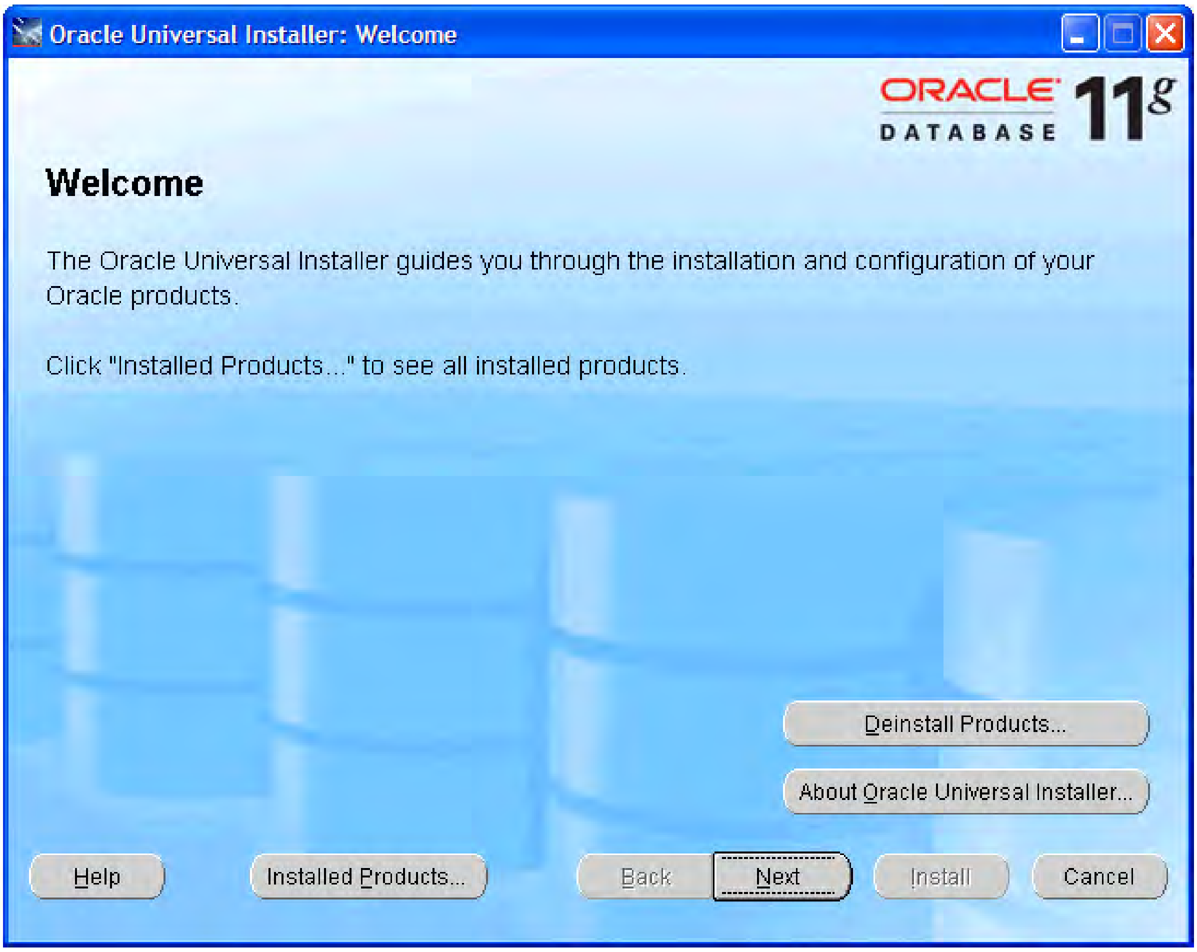
- Navigate to the folder containing the ‘setup’ program, for example:


client
Bestand
Bewerken
Beeld
Favorieten
Extra
Help
Vorige
Zoeken
Mappen
Ga naar
Bestands- en maptaken
Dit bestand een andere naam geven
Dit bestand verplaatsen
Dit bestand kopiëren
Dit bestand op het web publiceren
Dit bestand per e-mail verzenden
Dit bestand verwijderen
Andere locaties
win32_11gR1_client
Mijn documenten
Deze computer
Mijn netwerklocaties

Adres O:\Finance\win32_11gR1_client\client

Naam	Grootte	Type	Gewijzigd op
doc		Bestandsmap	5-3-2009 10:49
install		Bestandsmap	5-3-2009 10:49
response		Bestandsmap	5-3-2009 10:49
stage		Bestandsmap	5-3-2009 10:51
setup	332 kB	Toepassing	12-2-2009 13:21
setup	1 kB	Configuratie-instellingen	12-2-2009 13:21
welcome	4 kB	HTML Document	12-2-2009 13:21

- The Oracle installation program appears:


Oracle Universal Installer: Welcome
ORACLE DATABASE 11g

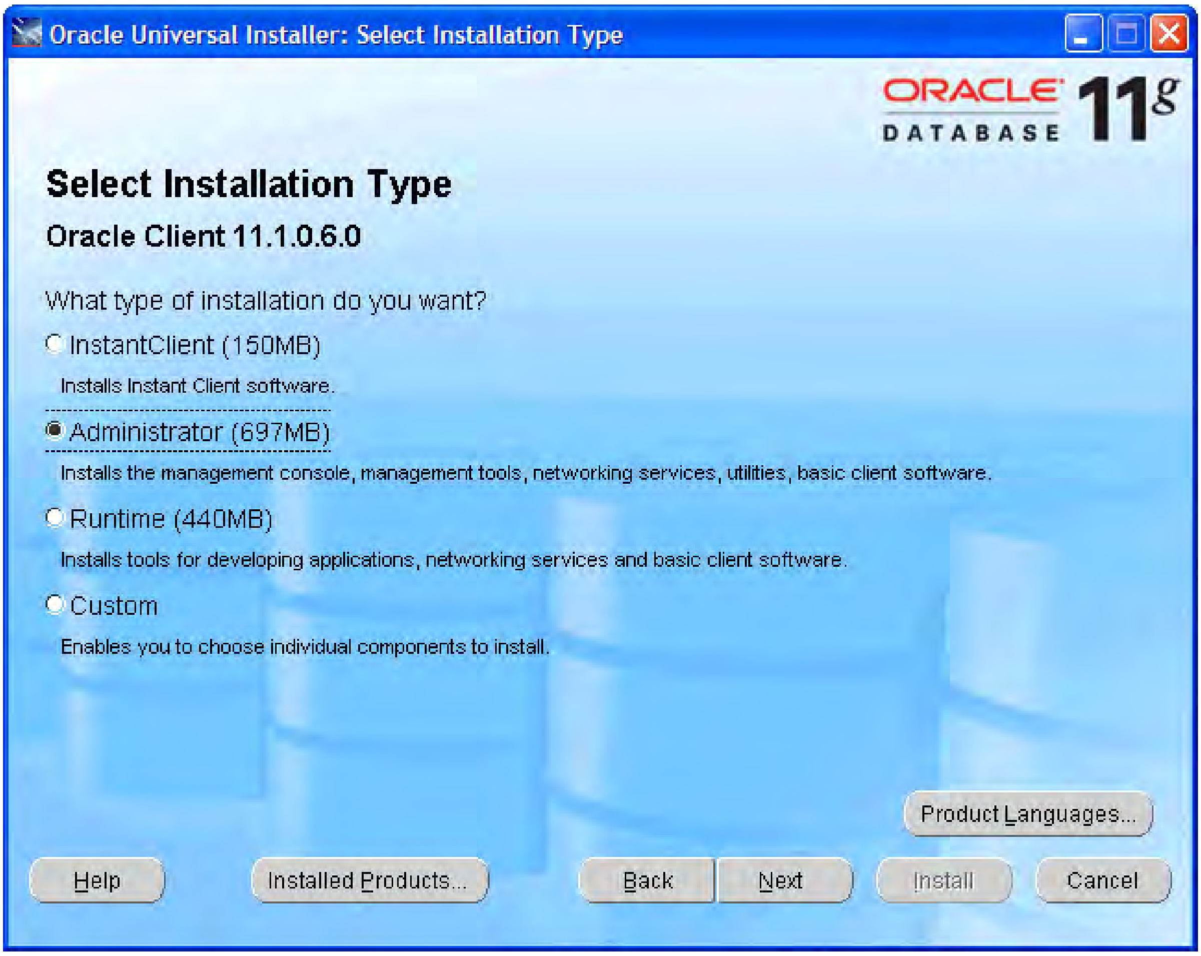
Welcome

The Oracle Universal Installer guides you through the installation and configuration of your Oracle products.

Click "Installed Products..." to see all installed products.

Deinstall Products...
About Oracle Universal Installer...
Help
Installed Products...
Back
Next
Install
Cancel

- We recommend to install the most comprehensive version within the license agreement, so that all devices are readily available if they should be needed later:



Oracle Universal Installer: Select Installation Type
ORACLE DATABASE 11g

Select Installation Type

Oracle Client 11.1.0.6.0

What type of installation do you want?

○ InstantClient (150MB)

Installs Instant Client software.

● Administrator (697MB)

Installs the management console, management tools, networking services, utilities, basic client software.

○ Runtime (440MB)

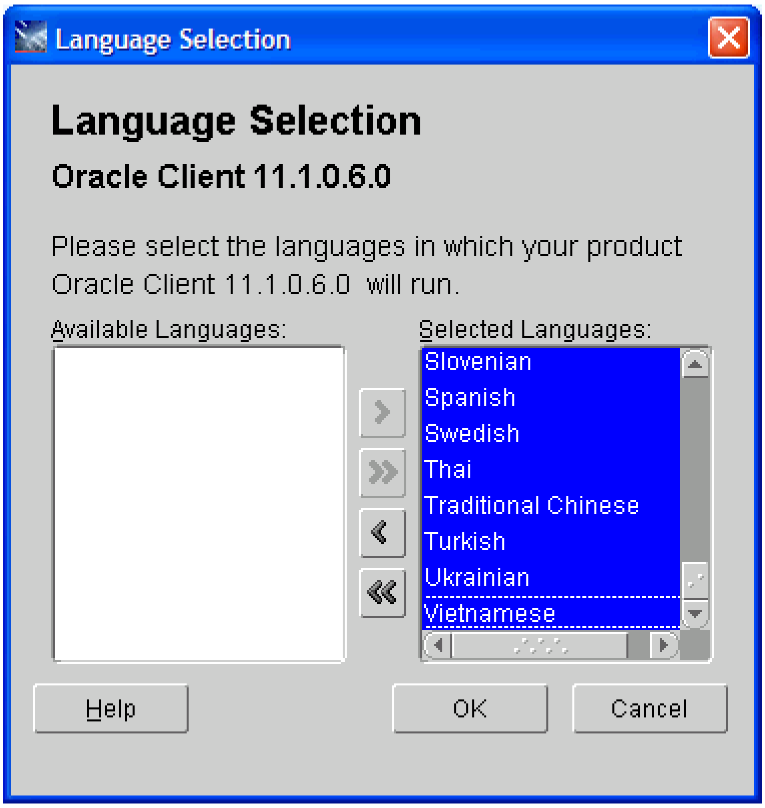
Installs tools for developing applications, networking services and basic client software.

○ Custom

Enables you to choose individual components to install.

Product Languages...
Help
Installed Products...
Back
Next
Install
Cancel

- Select the required languages via ‘Product Languages’. Here we recommend to choose all languages:



Language Selection

Oracle Client 11.1.0.6.0

Please select the languages in which your product Oracle Client 11.1.0.6.0 will run.

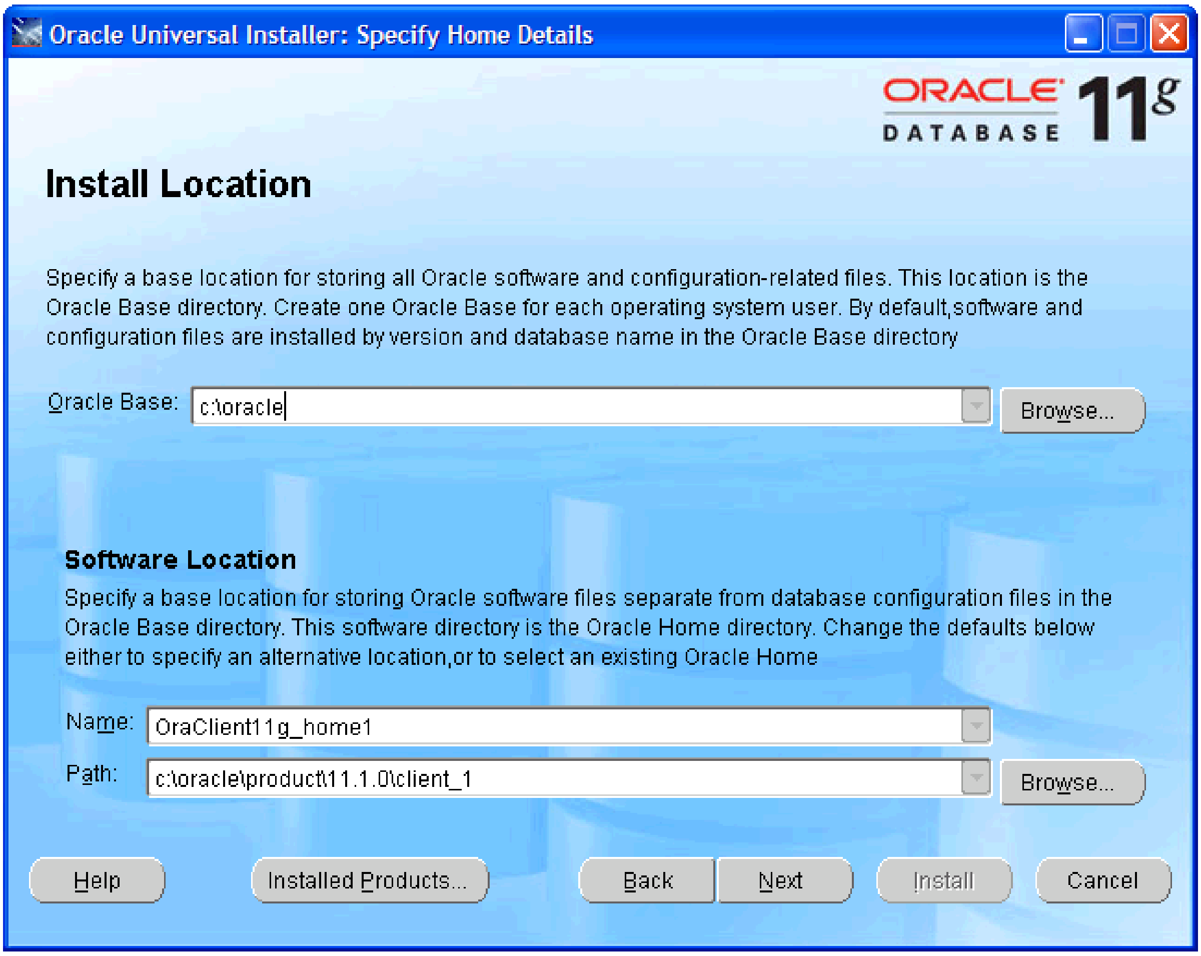
Available Languages:

Selected Languages:

- Slovenian
- Spanish
- Swedish
- Thai
- Traditional Chinese
- Turkish
- Ukrainian
- Vietnamese

Language Selection
Help
OK
Cancel

- Select ‘OK’ and then ‘Next’. We recommend to install the software under ‘c:\oracle’:



Install Location

Specify a base location for storing all Oracle software and configuration-related files. This location is the Oracle Base directory. Create one Oracle Base for each operating system user. By default,software and configuration files are installed by version and database name in the Oracle Base directory

Oracle Base: c:\oracle

Software Location

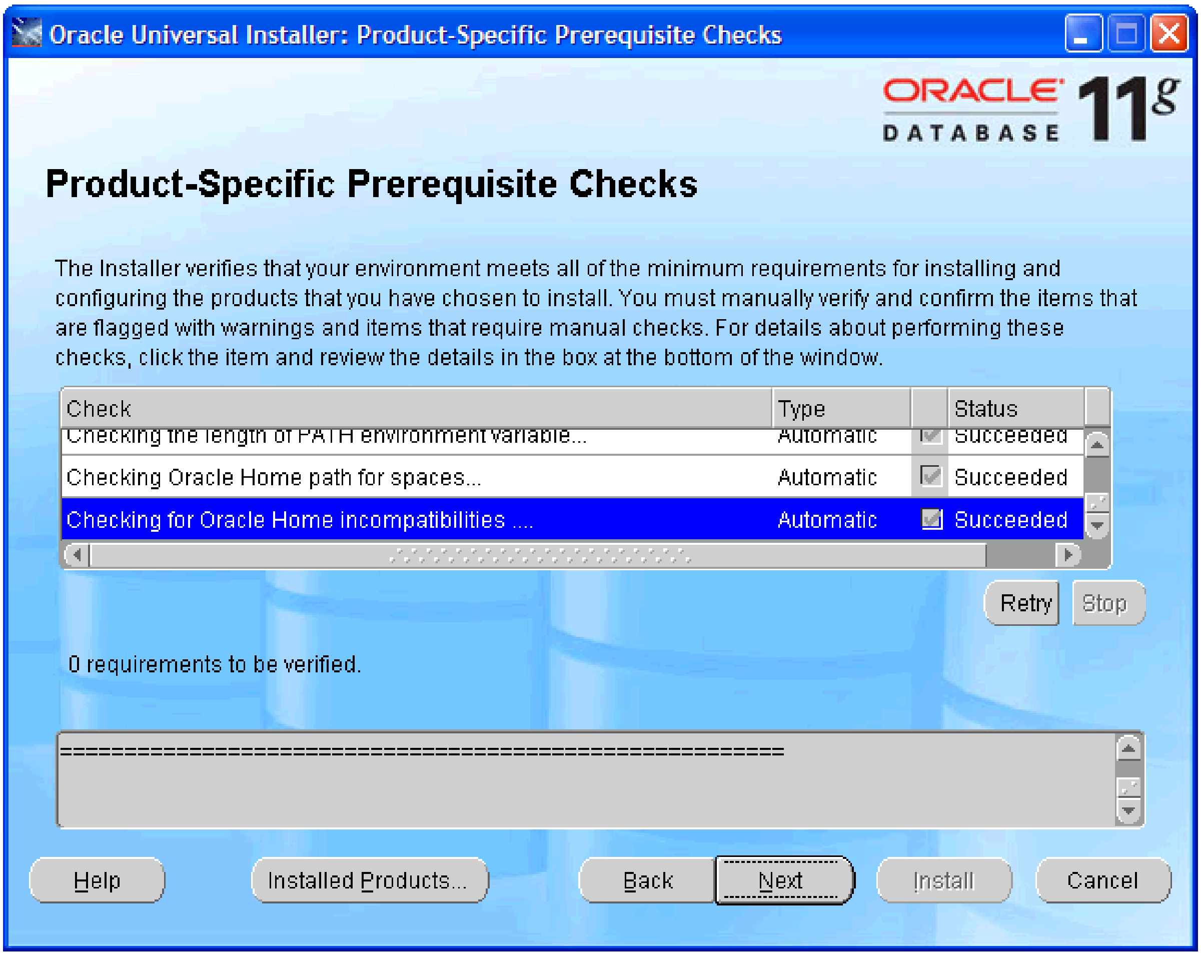
Specify a base location for storing Oracle software files separate from database configuration files in the Oracle Base directory. This software directory is the Oracle Home directory. Change the defaults below either to specify an alternative location,or to select an existing Oracle Home

Name: OraClient11g_home1

Path: c:\oracle\product\11.1.0\client_1

Oracle Universal Installer: Specify Home Details
ORACLE DATABASE 11g
Browse...
Browse...
Help
Installed Products...
Back
Next
Install
Cancel

- Subsequently a number of checks will be performed. If problems are found, solve them first:



Oracle Universal Installer: Product-Specific Prerequisite Checks

Product-Specific Prerequisite Checks

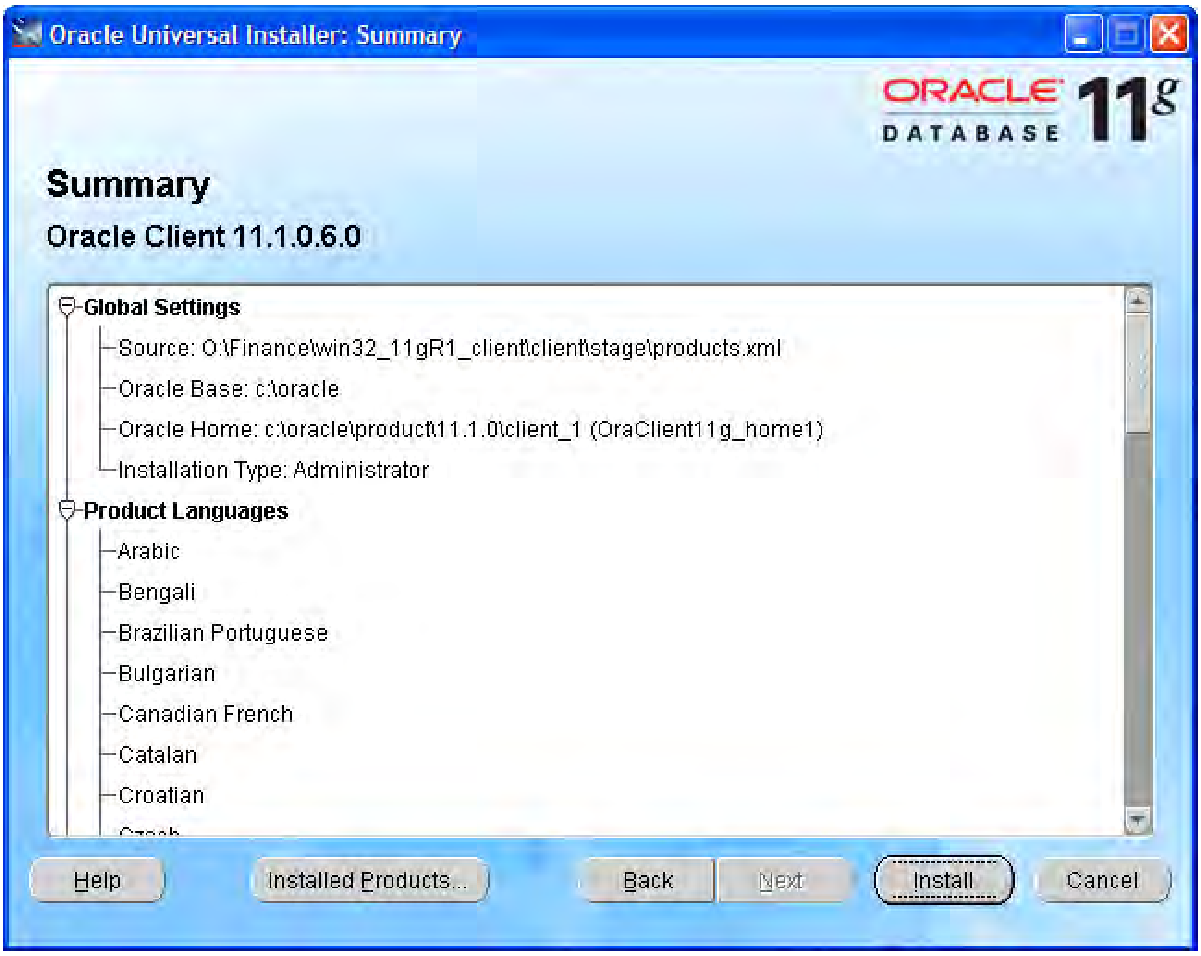
The Installer verifies that your environment meets all of the minimum requirements for installing and configuring the products that you have chosen to install. You must manually verify and confirm the items that are flagged with warnings and items that require manual checks. For details about performing these checks, click the item and review the details in the box at the bottom of the window.

Check	Type		Status
Checking the length of PATH environment variable...	Automatic	☑	Succeeded
Checking Oracle Home path for spaces...	Automatic	☑	Succeeded
Checking for Oracle Home incompatibilities	Automatic	☑	Succeeded

0 requirements to be verified.

```
============================================================
```

- Check the settings.
- Check if ODP.Net is listed between the products to be installed.
- Execute the installation by choosing 'Install':


Oracle Universal Installer: Summary
ORACLE DATABASE 11g

Summary

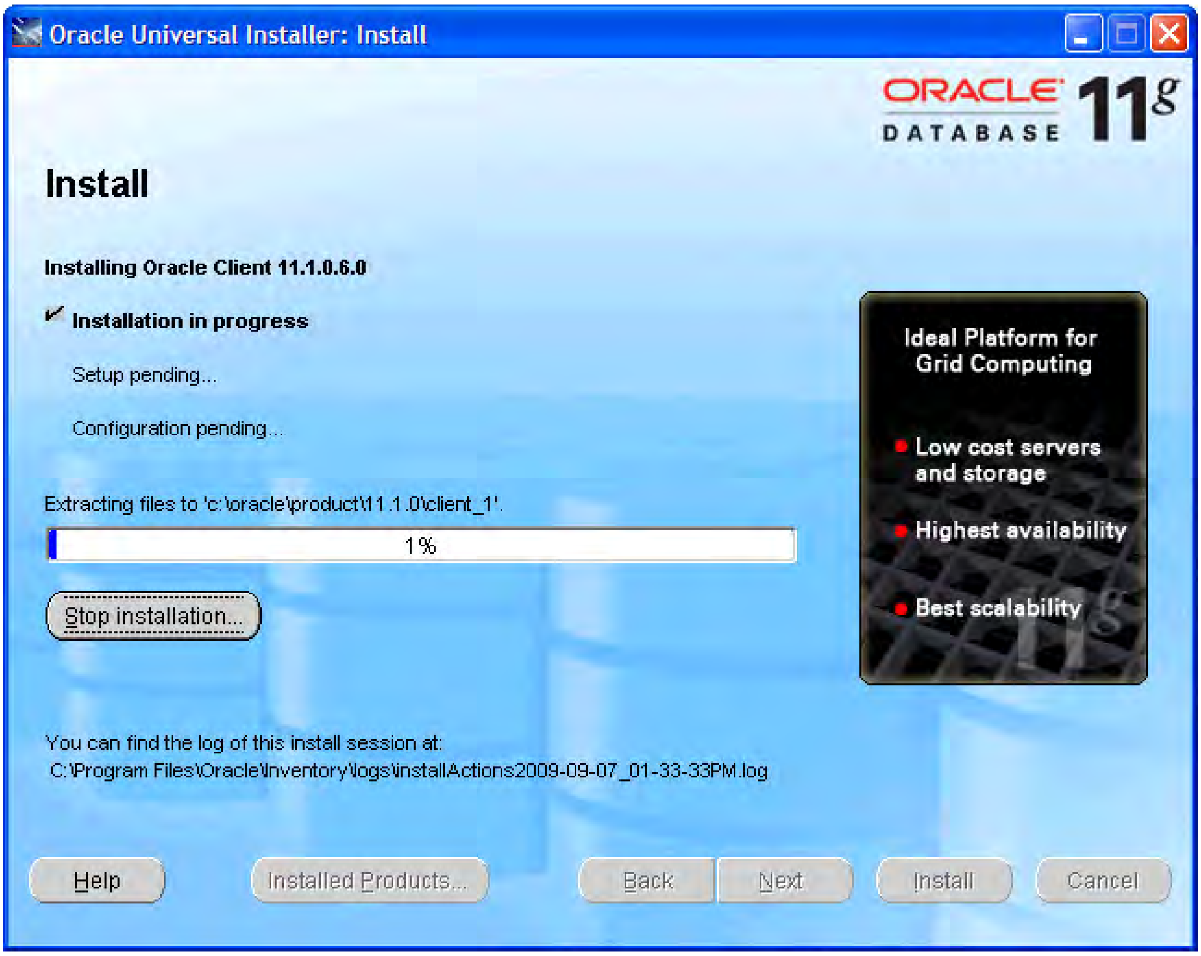
Oracle Client 11.1.0.6.0

Global Settings
- Source: O:\Finance\win32_11gR1_client\client\stage\products.xml
- Oracle Base: c:\oracle
- Oracle Home: c:\oracle\product\11.1.0\client_1 (OraClient11g_home1)
- Installation Type: Administrator

Product Languages
- Arabic
- Bengali
- Brazilian Portuguese
- Bulgarian
- Canadian French
- Catalan
- Croatian

Help
Installed Products...
Back
Next
Install
Cancel

- The progress is displayed:



Oracle Universal Installer: Install
ORACLE DATABASE 11g
Ideal Platform for Grid Computing
Low cost servers and storage
Highest availability
Best scalability
Stop installation...
Help
Installed Products...
Back
Next
Install
Cancel

Install

Installing Oracle Client 11.1.0.6.0

✓ Installation in progress

Setup pending...

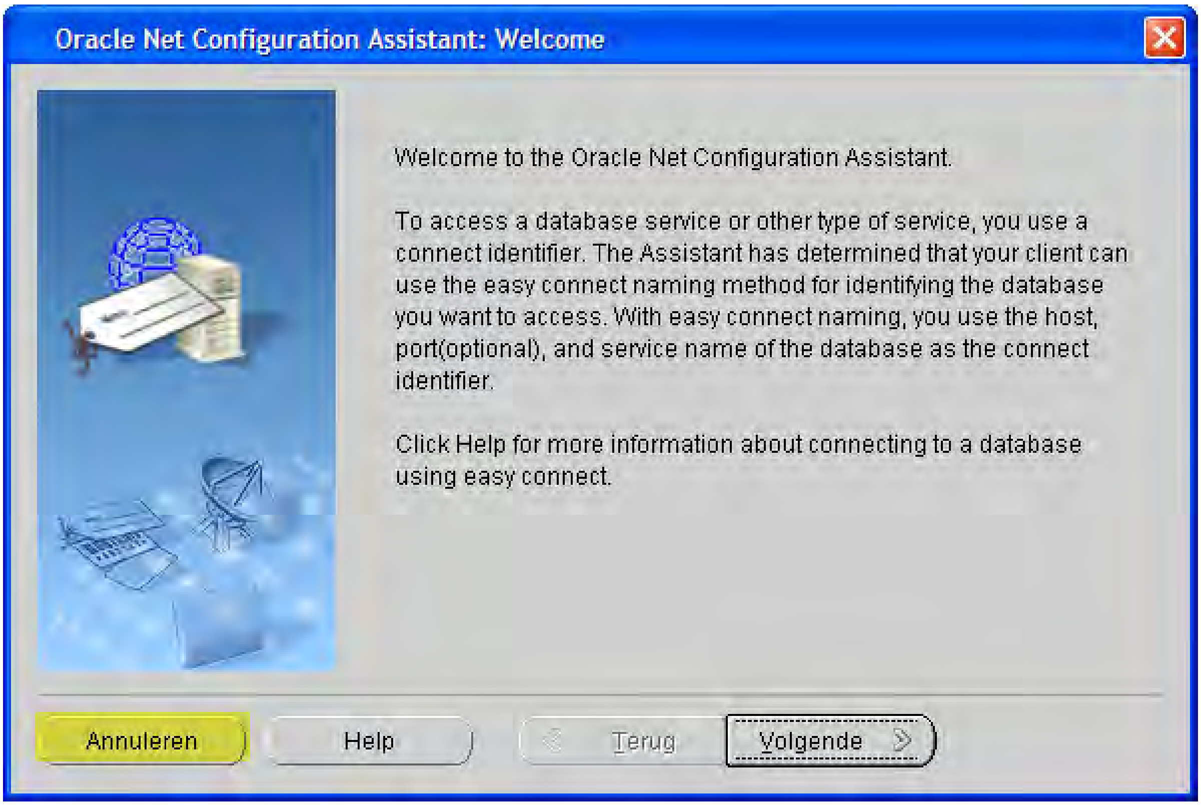
Configuration pending...

Extracting files to 'c:\oracle\product\11.1.0\client_1'.

1%

You can find the log of this install session at:
C:\Program Files\Oracle\Inventory\logs\installActions2009-09-07_01-33-33PM.log

- Afterwards a configuration program for the network configuration is started. Choose ‘Cancel’, we advise you to use the configuration file ‘tnsnames.ora’ as described in the next part of the instructions:


Oracle Net Configuration Assistant: Welcome

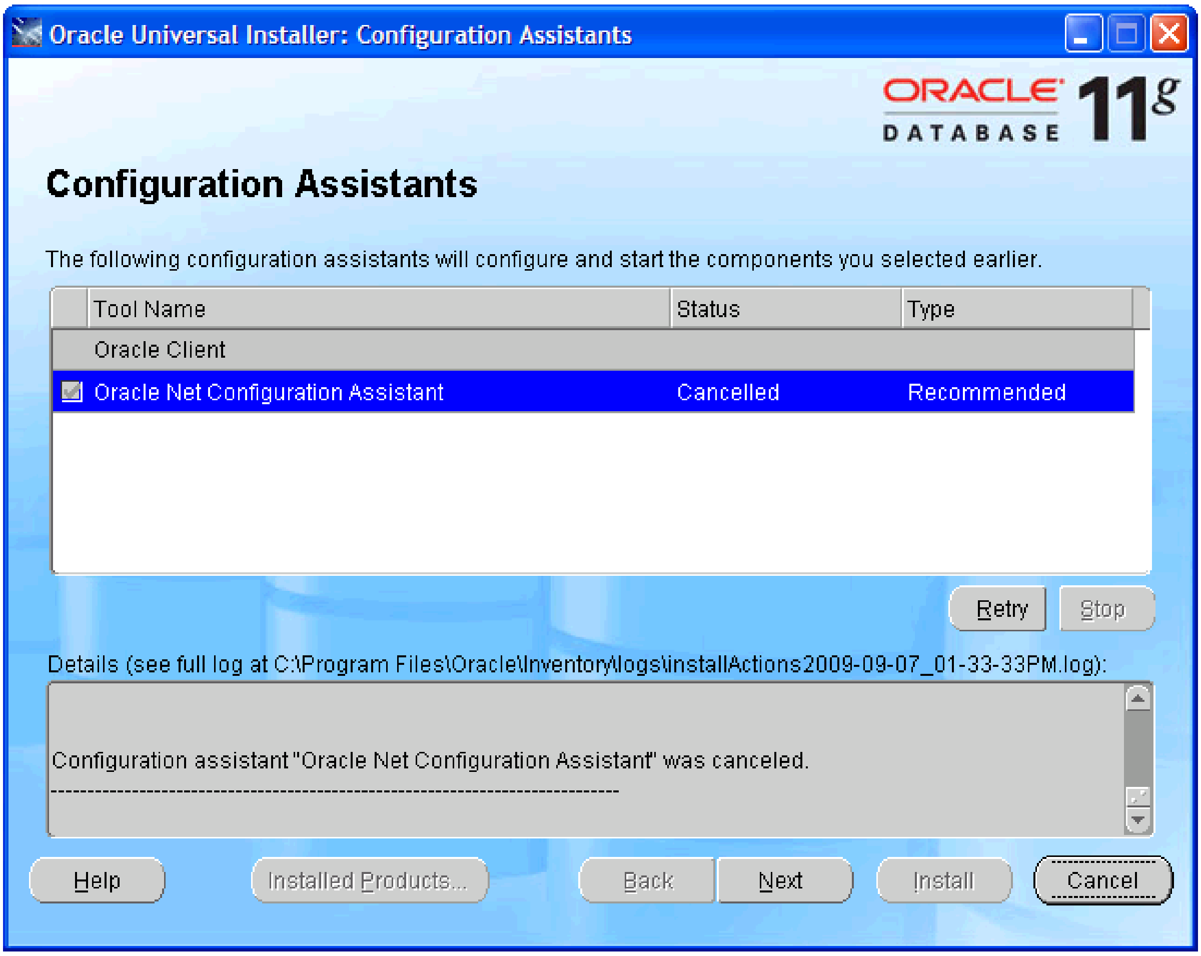
Welcome to the Oracle Net Configuration Assistant.

To access a database service or other type of service, you use a connect identifier. The Assistant has determined that your client can use the easy connect naming method for identifying the database you want to access. With easy connect naming, you use the host, port(optional), and service name of the database as the connect identifier.

Click Help for more information about connecting to a database using easy connect.

Annuleren
Help
Terug
Volgende

- Select ‘Next’:


Oracle Universal Installer: Configuration Assistants
ORACLE DATABASE 11g

Configuration Assistants

The following configuration assistants will configure and start the components you selected earlier.

Tool Name	Status	Type
Oracle Client		
☑ Oracle Net Configuration Assistant	Cancelled	Recommended

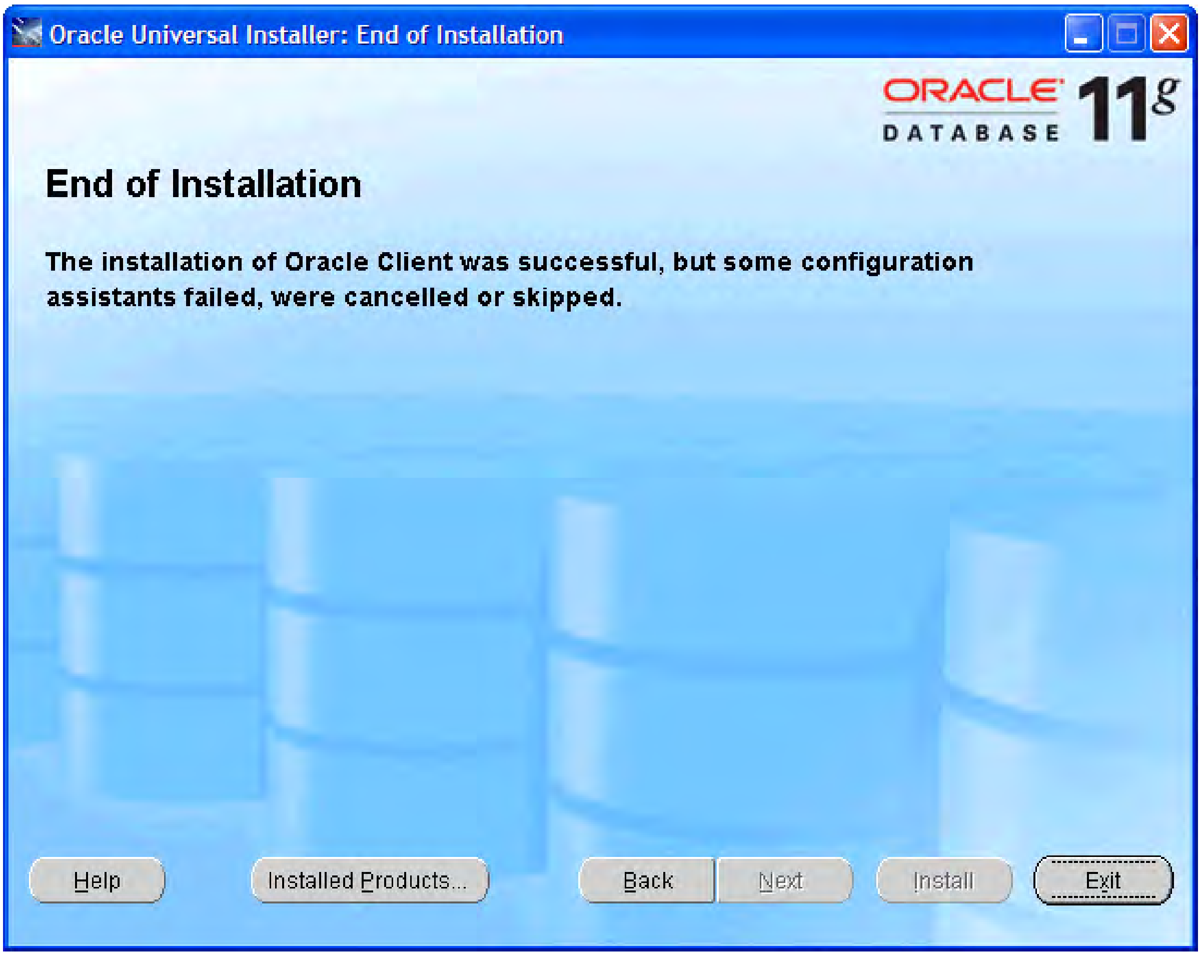
Retry
Stop

Details (see full log at C:\Program Files\Oracle\Inventory\logs\installActions2009-09-07_01-33-33PM.log):

```
Configuration assistant "Oracle Net Configuration Assistant" was canceled.
----------------------------------------------------------------------------
```

Help
Installed Products...
Back
Next
Install
Cancel

- Close the error message about the failure of the Oracle Net Configuration Assistant.
- Select ‘Exit’:


Oracle Universal Installer: End of Installation
ORACLE DATABASE 11g
Help
Installed Products...
Back
Next
Install
Exit

End of Installation

The installation of Oracle Client was successful, but some configuration assistants failed, were cancelled or skipped.

Oracle Client Configuration

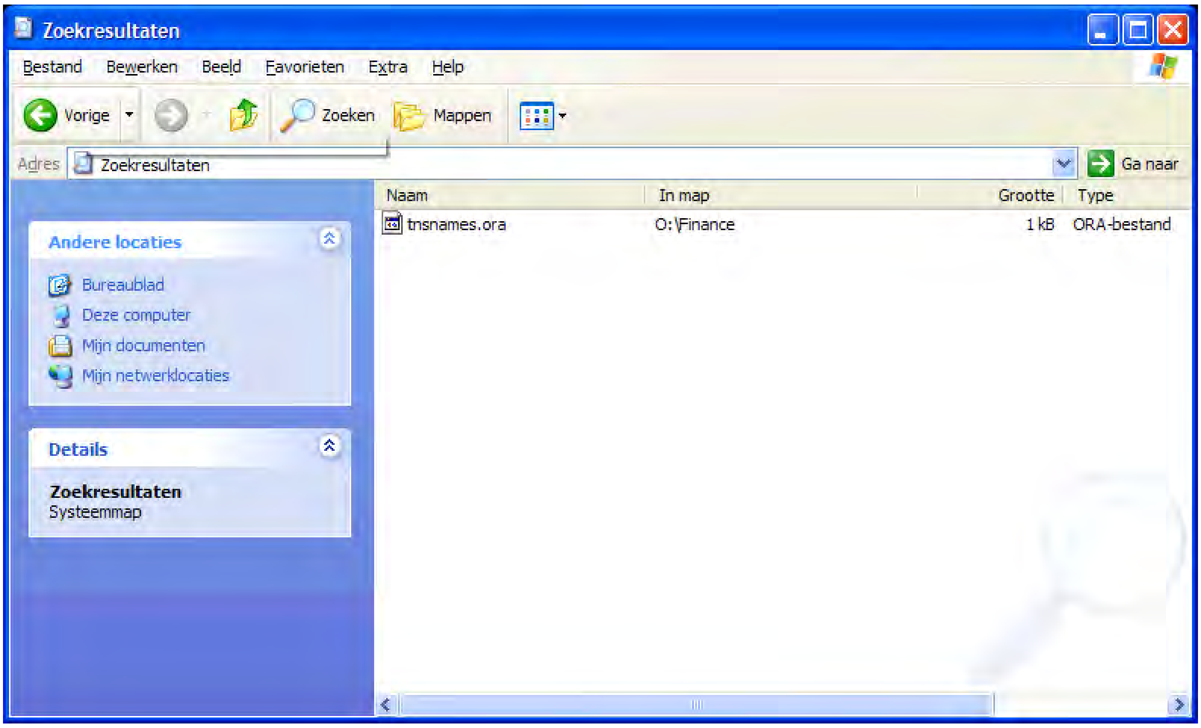
Follow these steps to configure the Oracle client:

- Construct (if not available yet) a tnsnames.ora configuration file.
- In a tnsnames.ora file (‘tns’ is the abbreviation for ‘Transparant Network Substrate’) all Oracle based databases (‘services’) and the route via the network to get there, are described.
- An example of a description of the service:

```
dvt11r2.invantive.local=
( description =
  ( address_list =
    ( address = (protocol = tcp)(host = 192.168.172.16)(port = 1521)
    )
  )
  ( connect_data =
    (sid=dvt11r2)
    (global_name = dvt11r2.invantive.local)
  )
)
```

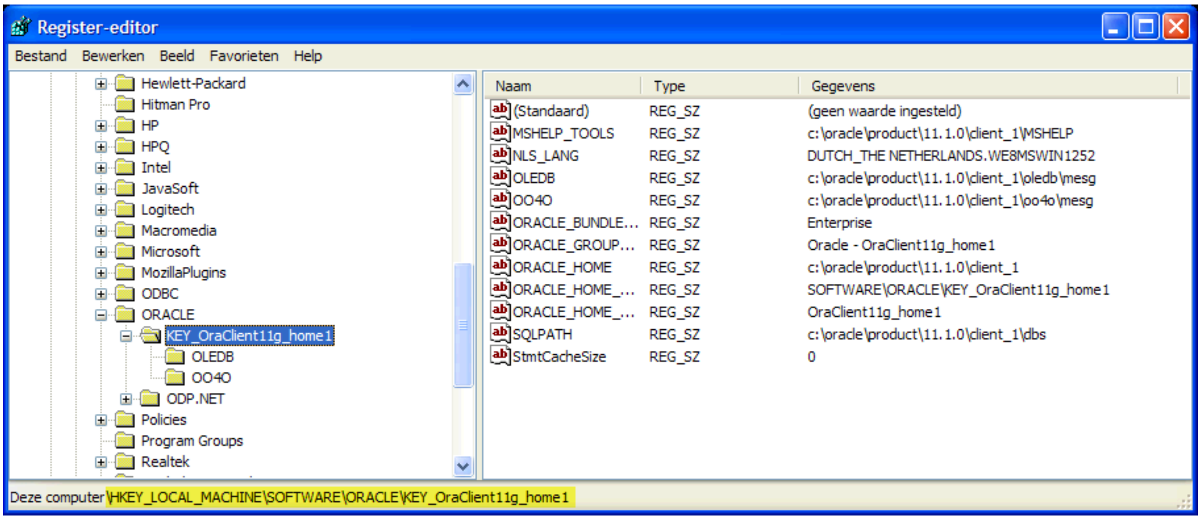
- This one describes that on the server with IP address 192.168.172.16 on port 1521 a program runs that knows how to make a connection with an Oracle database with the SID dvt11r2 and the global name dvt11r2.invantive.com.

- Full instructions on creating tnsnames.ora can be found in the Oracle documentation.
- Make sure that the tnsnames.ora file is located on the same place on all PC's, preferably in way to make it easy to add services from a central location. For fixed workplaces often a network drive is used, for example, as follows:


Zoekresultaten
Bestand
Bewerken
Beeld
Favorieten
Extra
Help
Vorige
Zoeken
Mappen
Adres
Zoekresultaten
Ga naar
Andere locaties
Bureaublad
Deze computer
Mijn documenten
Mijn netwerklocaties
Details
Zoekresultaten
Systeemmap

Naam	In map	Grootte	Type
tnsnames.ora	O:\Finance	1 kB	ORA-bestand

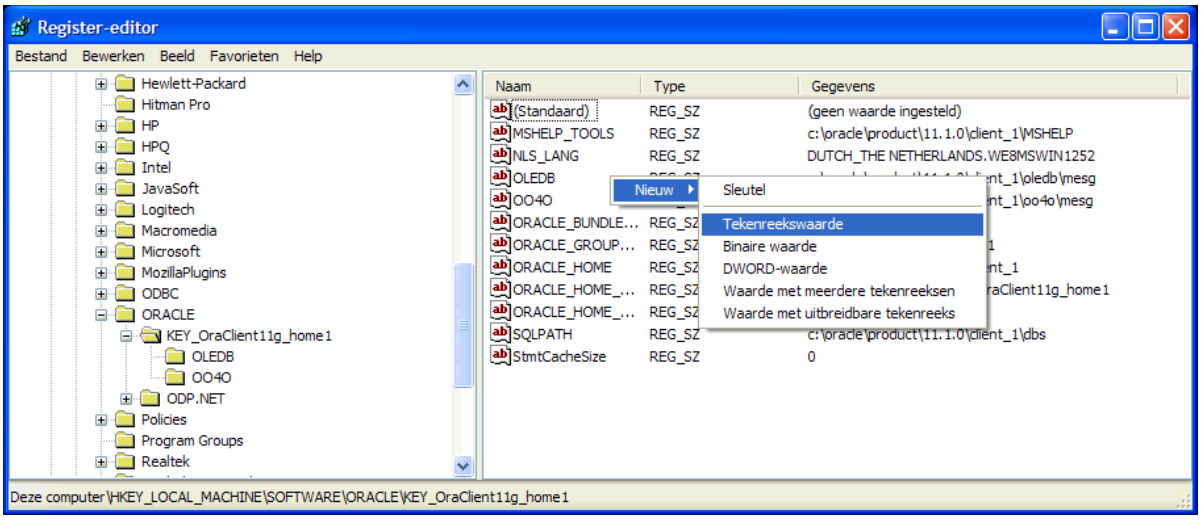
- Open the register with 'regedit' and go to the key HKLM\SOFTWARE\Oracle\KEY_OraClient11g_home1:


Register-editor
Bestand
Bewerken
Beeld
Favorieten
Help
Hewlett-Packard
Hitman Pro
HP
HPQ
Intel
JavaSoft
Logitech
Macromedia
Microsoft
MozillaPlugins
ODBC
ORACLE
KEY_OraClient11g_home1
OLEDB
OO4O
ODP.NET
Policies
Program Groups
Realtek

Naam	Type	Gegevens
(Standaard)	REG_SZ	(geen waarde ingesteld)
MSHELP_TOOLS	REG_SZ	c:\oracle\product\11.1.0\client_1\MSHELP
NLS_LANG	REG_SZ	DUTCH_THE NETHERLANDS.WE8MSWIN1252
OLEDB	REG_SZ	c:\oracle\product\11.1.0\client_1\oledb\mesg
OO4O	REG_SZ	c:\oracle\product\11.1.0\client_1\oo4o\mesg
ORACLE_BUNDLE...	REG_SZ	Enterprise
ORACLE_GROUP...	REG_SZ	Oracle - OraClient11g_home1
ORACLE_HOME	REG_SZ	c:\oracle\product\11.1.0\client_1
ORACLE_HOME_...	REG_SZ	SOFTWARE\ORACLE\KEY_OraClient11g_home1
ORACLE_HOME_...	REG_SZ	OraClient11g_home1
SQLPATH	REG_SZ	c:\oracle\product\11.1.0\client_1\dbs
StmtCacheSize	REG_SZ	0

Deze computer\HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\KEY_OraClient11g_home1

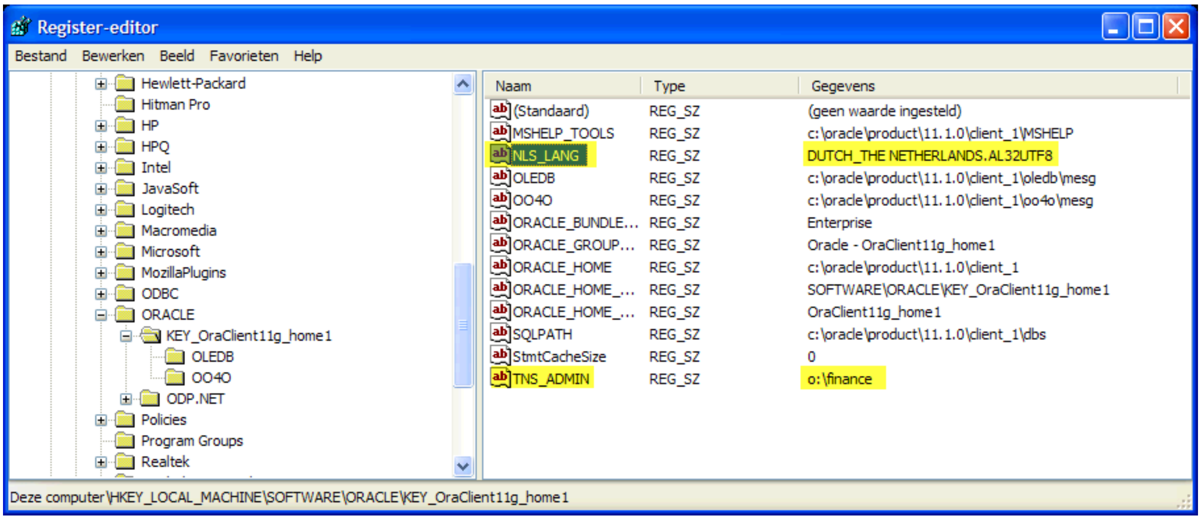
- Add a string with the name 'TNS_ADMIN' and make it point to the network location:


Register-editor
Bestand
Bewerken
Beeld
Favorieten
Help
Hewlett-Packard
Hitman Pro
HP
HPQ
Intel
JavaSoft
Logitech
Macromedia
Microsoft
MozillaPlugins
ODBC
ORACLE
KEY_OraClient11g_home1
OLEDB
OO4O
ODP.NET
Policies
Program Groups
Realtek
Nieuw
Sleutel
Tekenreekswaarde
Binaire waarde
DWORD-waarde
Waarde met meerdere tekenreeksen
Waarde met uitbreidbare tekenreeks

Naam	Type	Gegevens
(Standaard)	REG_SZ	(geen waarde ingesteld)
MSHELP_TOOLS	REG_SZ	c:\oracle\product\11.1.0\client_1\MSHELP
NLS_LANG	REG_SZ	DUTCH_THE NETHERLANDS.WE8MSWIN1252
OLEDB		nt_1\oledb\mesg
OO4O		nt_1\oo4o\mesg
ORACLE_BUNDLE...	REG_SZ	
ORACLE_GROUP...	REG_SZ	1
ORACLE_HOME	REG_SZ	nt_1
ORACLE_HOME_...	REG_SZ	raClient11g_home1
ORACLE_HOME_...	REG_SZ	
SQLPATH	REG_SZ	c:\oracle\product\11.1.0\client_1\dbs
StmtCacheSize	REG_SZ	0

Deze computer\HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\KEY_OraClient11g_home1

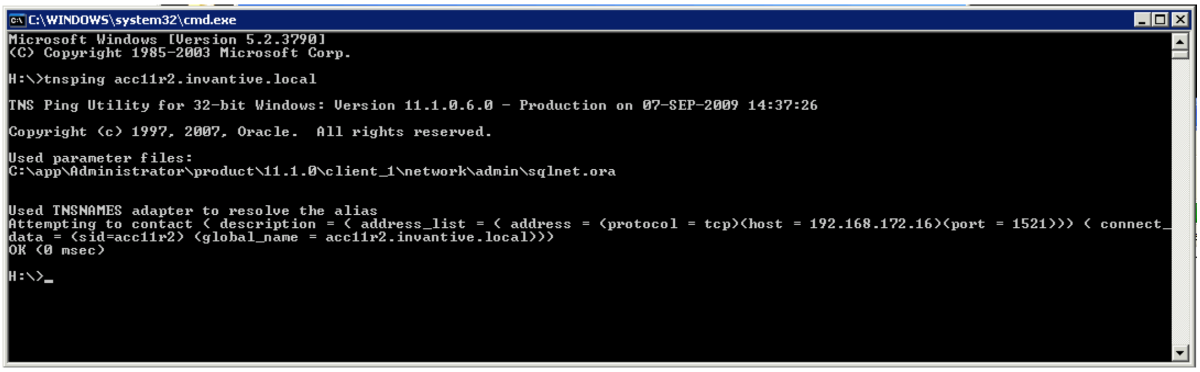
- Change also the NLS_LANG to ‘DUTCH_THE NETHERLANDS.AL32UTF8’ to make sure that messages appear in dutch and the Unicode character set is used. If you use Oracle Instant Client, then there is no NLS_LANG in the Windows registry; that's why you need to define the NLS_LANG environment variable in Windows.


Register-editor
Bestand
Bewerken
Beeld
Favorieten
Help
Hewlett-Packard
Hitman Pro
HP
HPQ
Intel
JavaSoft
Logitech
Macromedia
Microsoft
MozillaPlugins
ODBC
ORACLE
KEY_OraClient11g_home1
OLEDB
OO4O
ODP.NET
Policies
Program Groups
Realtek

Naam	Type	Gegevens
(Standaard)	REG_SZ	(geen waarde ingesteld)
MSHELP_TOOLS	REG_SZ	c:\oracle\product\11.1.0\client_1\MSHELP
NLS_LANG	REG_SZ	DUTCH_THE NETHERLANDS.AL32UTF8
OLEDB	REG_SZ	c:\oracle\product\11.1.0\client_1\oledb\mesg
OO4O	REG_SZ	c:\oracle\product\11.1.0\client_1\oo4o\mesg
ORACLE_BUNDLE...	REG_SZ	Enterprise
ORACLE_GROUP...	REG_SZ	Oracle - OraClient11g_home1
ORACLE_HOME	REG_SZ	c:\oracle\product\11.1.0\client_1
ORACLE_HOME_...	REG_SZ	SOFTWARE\ORACLE\KEY_OraClient11g_home1
ORACLE_HOME_...	REG_SZ	OraClient11g_home1
SQLPATH	REG_SZ	c:\oracle\product\11.1.0\client_1\dbs
StmtCacheSize	REG_SZ	0
TNS_ADMIN	REG_SZ	o:\finance

Deze computer\HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\KEY_OraClient11g_home1

- If you use Oracle Instant Client, then there is no NLS_LANG in the Windows registry; that's why you need to define the NLS_LANG environment variable in Windows.
- Test the connection from a command prompt with ‘tnsping’:


C:\WINDOWS\system32\cmd.exe

```
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

H:\>tnsping acc11r2.invantive.local

TNS Ping Utility for 32-bit Windows: Version 11.1.0.6.0 - Production on 07-SEP-2009 14:37:26

Copyright (c) 1997, 2007, Oracle.  All rights reserved.

Used parameter files:
C:\app\Administrator\product\11.1.0\client_1\network\admin\sqlnet.ora


Used TNSNAMES adapter to resolve the alias
Attempting to contact ( description = ( address_list = ( address = (protocol = tcp)(host = 192.168.172.16)(port = 1521))) ( connect_
data = (sid=acc11r2) (global_name = acc11r2.invantive.local)))
OK (0 msec)

H:\>_
```

- It is still not certain if the user/password are correct, but it is certain that a network connection to the Oracle service can be built.

- Finally, check the connection by logging in with SQL*Plus.

3.7.5.2 Microsoft SQL Server Provider for Invantive Webservice

In this chapter the configuration of the provider is described.

In addition some suggestions are provided to execute the installation of the Microsoft programming. However, this is no replacement of the knowledge and experience with the local situation and trainings that an administrator or DBA has from his role and the results of the installation are therefore not guaranteed.

Installation Microsoft SQL Server Client

There are no installation steps for the Microsoft SQL Server Client. The Microsoft SQL Server Client is supplied with every .NET installation.

Configuration Microsoft SQL Server Client

There are no configuration settings for the Microsoft SQL Server Client.

3.7.5.3 MySQL Provider for Invantive Webservice

In this chapter the configuration of the provider is described.

In addition, some suggestions are provided to execute the installation of the MySQL programming. However, this is no replacement of the knowledge and experience with the local situation and trainings that an administrator or DBA has from his role and the results of the installation are therefore not guaranteed.

Installation MySQL Client

The MySQL Connector/Net client is available at http://dev.mysql.com/downloads/connector/net/. The installation of the MySQL client MySQL Connector/Net proceeds as follows:

- Double click the MSI installation file from the zip at above mentioned website.
- Choose the button 'Next'.
- Choose the button 'Typical'.
- Choose the button 'Install'.
- Choose the button 'Finish'.

Configuration MySQL Client

Specific settings for the MySQL Connector/Net client can be found at http://dev.mysql.com/doc/refman/5.6/en/connector-net-connection-options.html.

3.7.5.4 IBM DB2 Provider for Invantive Webservice

In this chapter the configuration of the provider is described.

Furthermore, some suggestions are given to execute the installation of the IBM DB2 programming. However, this is no replacement of the knowledge and experience with the local situation and trainings that an administrator or DBA has from his role and the results of the installation are therefore not guaranteed.

Installation IBM DB2 Client

Install the IBM DB2 Data Server Driver as described on http://pic.dhe.ibm.com/infocenter/db2luw/v9r7/index.jsp?topic=%2Fcom.ibm.swg.im.dbclient.install.doc%2Fdoc%2Ft0007315.html.

Configuration IBM DB2 Client

There are no configuration settings for the IBM DB2 Client.

3.8 Terminology

Hieronder beschreven we de gebruikte termen.

3.8.1 Channel

A channel is the medium on which data and requests are exchanged between an Invantive Producer client application and an Invantive Webservice server.

3.8.2 Connection

A connection is the definition of possibilities to establish a channel 630 between an Invantive Producer client application and an Invantive Webservice server.

3.9 Versions

This chapter describes the changes in the application per version.

3.9.1 Release 2014 R1

Released: XX-XX-2014.

Invantive Producer: bXX.

Changes and bug fixes:

Number	Type	Description
22414	ER	IBM DB2 data provider support.
23456	ER	IBM DB2 ook via ODBC mogelijk maken.
22594	ER	Ondersteuning voor redundante verbindingen (failover).
23279	PR	Onder specifieke condities treedt een Byte[] error op bij gebruik van de webservice.

Installation

- No specialties.

Implementation

- No specialties.

4 Contact Information

Invantive® Software BV

Location Harderwijk

Stephensonstraat 3b

3846 AK Harderwijk

the Netherlands

Phone: +31 88 0026500

Fax: +31 84 2258178

E-mail: info@invantive.com

Web: www.invantive.com

Route

Follow the instructions of your navigation system. The offices are located above Carglass. Parking spots are on the right side. Parking spots are indicated with a sign with 'Invantive'.

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Solutions for

Real Estate and Finance

Invantive Software B.V.
Stephensonstraat 3b
3846 AK Harderwijk
the Netherlands

Tel: +31 88 00 26 500
Fax: +31 84 22 58 178
info@invantive.com
www.invantive.com

IBAN NL11 RABO 0123 5297 02
Chamber of Industry and Commerce
08194155
VAT NL820681131B01
RSIN 820681131
Managing Director: Guido Leenders
Registered office: Hierden

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